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Technical Specification

3<sup>rd</sup> Generation Partnership Project (3GPP);
Technical Specification Group (TSG)
Radio Access Network (RAN);
Working Group 1 (WG1);
Physical channels and mapping of transport channels
onto physical channels (TDD)



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#### **Foreword**

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## 1 Scope

This specification describes the characteristics of the physicals channels and the mapping of the transport channels to physical channels in the TDD mode of UTRA.

## 2 References

References may be made to:

- a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply;
- b) publications without mention of a specific version, in which case the latest version applies.

A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- [1] TS 25.201: "Physical layer general description"
- [2] TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)"
- [3] TS 25.212: "Multiplexing and channel coding (FDD)"
- [4] TS 25.213: "Spreading and modulation (FDD)"
- [5] TS 25.214: "Physical layer procedures (FDD)"
- [6] TS 25.215: "Physical layer Measurements (FDD)"
- [7] TS 25.222: "Multiplexing and channel coding (TDD)"
- [8] TS 25.223: "Spreading and modulation (TDD)"
- [9] TS 25.224: "Physical layer procedures (TDD)"
- [10]TS 25.225: "Physical layer Measurements (TDD)"
- [11]TS 25.301: "Radio Interface Protocol Architecture"
- [12]TS 25.302: "Services Provided by the Physical Layer"
- [13]TS 25.401: "UTRAN Overall Description"

## 3 Definitions and abbreviations

BCH Broadcast Channel

CCPCH Common Control Physical Channel CCTrCH Coded Composite Transport Channel

CDMA Code Division Multiple Access

DPCH Dedicated Physical Channel DSCH Downlink Shared Channel

FACH Forward Access Channel FDD Frequency Division Duplex FEC Forward Error Correction

GP Guard Period

GSM Global System for Mobile Communication

NRT Non-Real Time

ODCH ODMA Dedicated Transport Channel
ODMA Opportunity Driven Multiple Access
ORACH ODMA Random Access Channel
OVSF Orthogonal Variable Spreading Factor

PCH Paging Channel

PDSCH Physical Downlink Shared Channel

PDU Protocol Data Unit

PRACH Physical Random Access Channel
PSCH Physical Synchronisation Channel
PUSCH Physical Uplink Shared Channel

RACH Random Access Channel

RLC Radio Link Control
RF Radio Frame
RT Real Time

SACCH Slow Associated Control Channel

SCH Synchronisation Channel

SDCCH Stand-alone Dedicated Control Channel

TCH Traffic Channel
TDD Time Division Duplex

TDMA Time Division Multiple Access

USCH Uplink Shared Channel

## 4 Transport channels

### 4.1 Transport channels

Transport channels are the services offered by layer 1 to the higher layers. A transport channel is defined by how and with what characteristics data is transferred over the air interface. A general classification of transport channels is into two groups:

- common channels (where there is a need for in-band identification of the UEs when particular UEs are addressed) and
- dedicated channels (where the UEs are identified by the physical channel)

General concepts about transport channels are described in 3GPP RAN TS25.302 (L2 specification).

#### 4.1.1 Dedicated transport channels

The Dedicated Channel (DCH) is an up- or downlink transport channel that is used to carry user or control information between the UTRAN and a UE.

Two types of dedicated transport channels have been identified:

- 1. Dedicated Channel (DCH)
- 2. ODMA Dedicated Transport Channel (ODCH)

#### 4.1.2 Common transport channels

Common transport channels are:

1. Broadcast Channel (BCH)

The Broadcast Channel (BCH) is a downlink transport channel that is used to broadcast system- and cell-specific information.

2. Paging Channel (PCH)

The Paging Channel (PCH) is a downlink transport channel that is used to carry control information to a mobile station when the system does not know the location cell of the mobile station.

3. Forward Access Channel(s) (FACH)

The Forward Access Channel (FACH) is a downlink transport channel that is used to carry control information to a mobile station when the system knows the location cell of the mobile station. The FACH may also carry short user packets.

4. Random Access Channel(s) (RACH)

The Random Access Channel (RACH) is an up link transport channel that is used to carry control information from mobile station. The RACH may also carry short user packets.

- 5. ODMA Random Access Channel (ORACH)
- 6. Synchronisation Channel (SCH)
- 7. Uplink Shared Channel (USCH)

The uplink shared channel (USCH) is a uplink transport channel shared by several UEs carrying dedicated control or traffic data.

7. Downlink Shared Channel (DSCH)

The downlink shared channel (DSCH) is a downlink transport channel shared by several UEs carrying dedicated control or traffic data.

# 5 Physical channels

All physical channels take three-layer structure of superframes, radio frames, and timeslots. Depending on the resource allocation, the configuration of radio frames or timeslots becomes different. All physical channels need guard symbols in every timeslot. The time slots are used in the sense of a TDMA component to separate different user signals in the time and the code domain. The physical channel signal format is presented in Figure 1.

A burst is the combination of a data part, a midamble and a guard period. The duration of a burst is one time slot. Several bursts can be transmitted at the same time from one transmitter. In this case, the data part must use different OVSF channelisation codes, but the same scrambling code. The midamble part has to use the same basic midamble code, but can use different midambles.

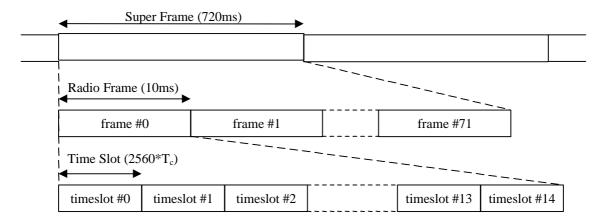


Figure 1 Physical channel signal format

A physical channel in TDD is a burst, which is repeated in the same timeslot with a certain repetition length of consecutive RF in and after each RF defined by a repetition period, starting at a certain frame number defined by the superframe offset in the multiframe, where the repetition period is a submultiple of 72, i.e. 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, or 72, and the superframe offset is in the interval 0...(repetition period-1). The repetition length of each repeated allocation can have the values 1, 2, 4 or 8 frames. It should be equal to the longest interleaving depth of all transport channels on this physical channel.

The data part of the burst is spread with a channelisation code. This channelisation code is a OVSF code, that can have a spreading factor of 1, 2, 4, 8, or 16. The data rate of the physical channel is depending on the used spreading factor of the used OVSF code.

The midamble part of the burst can contain two different types of midambles: a short one of length 256 chips, or a long one of 512 chips. The data rate of the physical channel is depending on the used midamble length.

So a physical channel is defined by frequency, timeslot, channelisation code, burst type, repetition period, superframe offset and repetition length. The scrambling code and the basic midamble code are broadcasted and may be constant within a cell. When a physical channel is established, a start frame is given. The physical channels can either be of infinite duration, or a duration for the allocation can be defined.

#### 5.1 Frame structure

The TDMA frame has a duration of 10 ms and is subdivided into 15 time slots (TS) of  $2560^*T_c$  duration each. A time slot corresponds to 2560 chips. The physical content of the time slots are the bursts of corresponding length as described in section 5.2.2.

Each 10 ms frame consists of 15 time slots, each allocated to either the uplink or the downlink (Figure 2). With such a flexibility, the TDD mode can be adapted to different environments and deployment scenarios. In any configuration at least one time slot has to be allocated for the downlink and at least one time slot has to be allocated for the uplink.

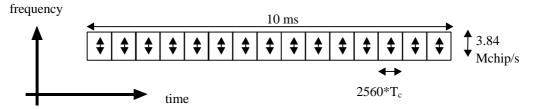
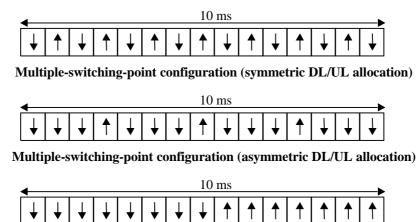
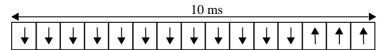


Figure 2 The TDD frame structure

Examples for multiple and single switching point configurations as well as for symmetric and asymmetric UL/DL allocations are given in Figure 3.







Single-switching-point configuration (asymmetric DL/UL allocation)

Figure 3 TDD frame structure examples

When operating ODMA at least one common timeslot has to be allocated for the ORACH. If large quantities of information have to be transferred between ODMA nodes then it is normal to use at least one timeslot for the ODCH (Figure 4). As Figure 4 shows, any timeslot in the TDD frame may potentially be used by the ODCH.

A common timeslot indicates a carrier-timeslot combination which can be used for transmission and reception by a group of mobiles operating ODMA.

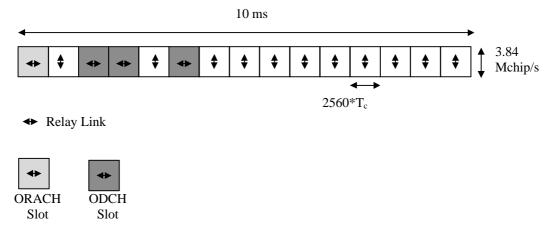


Figure 4 TDD frame structure example for ODMA operation.

## 5.2 Dedicated physical channel (DPCH)

The DCH or in case of ODMA networks the ODCH as described in section 4.1.1 are mapped onto the dedicated physical channel.

#### 5.2.1 Spreading codes

Two options are being considered for the bursts that can be sent as described below. Both options allow a high degree of bit rate granularity and flexibility, thus allowing the implementation of the whole service range from low to high bit rates.

Spreading factor of and the number of codes for multicode transmission are assigned independently for uplink and downlink. The number of timeslots is also assigned independently for uplink and downlink.

#### 5.2.1.1 Multicode transmission with fixed spreading

Within each time slot of length  $2560^*T_c$ , an additional separation of user signals by spreading codes is used. This means, that within one time slot of length  $2560^*T_c$ , more than one burst of corresponding length as described in section 5.2.2 can be transmitted. These multiple bursts within the same time slot can be allocated to different users as well as partly or all to a single user. For the multiple bursts within the same time slot, different spreading codes are used to allow the distinction of the multiple bursts.

#### 5.2.1.2 Single code transmission with variable spreading

Within each time slot of 2560\*T<sub>c</sub> duration,

- a UE always uses single code transmission by adapting the spreading factor as a function of the data
  rate. This limits the peak-to-average ratio of the modulated signal and consequently the stress imposed to
  the power amplifier resulting in an improved terminal autonomy. Several mobiles can be received in the
  same time slot by the base station, they are separated by their codes and the individual decoding can
  take profit of the joint detection.
- a base station should broadcast a single burst per mobile again by adapting the spreading as a function of the data rate. High rate data transmissions requiring more than one timeslot per mobile can be supported by terminals having the processing power for joint detection on a single slot: the required throughput occupies in a general way an integer number of slots plus a fraction of an extra slot. Single burst transmission should occur in the integer number of slots, while the extra slot can be occupied by a burst for the considered mobile plus extra bursts for other mobiles, joint detection is only needed for this last time slot in the considered mobile.

#### 5.2.2 Burst Types

As explained in the section 5.2.1, two options are being considered for the spreading. The bursts described in this section can be used for both options.

Two types of bursts for dedicated physical channels are defined: The burst type 1 and the burst type 2. Both consist of two data symbol fields, a midamble and a guard period. The bursts type 1 has a longer midamble of 512 chips than the burst type 2 with a midamble of 256 chips. Sample sets of midambles are given in section 7.2.3.1 and 7.2.3.2.

Because of the longer midamble, the burst type 1 is suited for the uplink, where up to 16 different channel impulse responses can be estimated. The burst type 2 can be used for the downlink and, if the bursts within a time slot are allocated to less than four users, also for the uplink.

Thus the burst type 1 can be used for

- uplink, independent of the number of active users in one time slot
- downlink, independent of the number of active users in one time slot

The burst type 2 can be used for

• uplink, if the bursts within a time slot are allocated to less than four users

· downlink, independent of the number of active users in one time slot

The data fields of the burst type 1 are 976 chips long, whereas the data fields length of the burst type 2 are 1104 chips long. The corresponding number of symbols depends on the spreading factor, as indicated in

Table 1 below. The guard period for the burst type 1 and type 2 is 96 chip periods long.

The bursts type 1 and type 2 are shown in Figure 5 and Figure 6. The contents of the burst fields are described in Table 2 and Table 3.

Spreading factor (Q)	Number of symbols (N) per data field in Burst 1	Number of symbols (N) per data field in Burst 2
1	976	1104
2	488	552
4	244	276
8	122	138
16	61	60

Table 1 number of symbols per data field in bursts 1 and 2

Table 2 The contents of the burst type 1 fields

Chip number (CN)	Length of field in chips	Length of field in symbols	Contents of field
0-975	976	cf	Data symbols
		Table 1	
976-1487	512	-	Midamble
1488-2463	976	cf	Data symbols
		Table 1	
2464-2559	96	-	Guard period

Data symbols 976 chips	Midamble 512 chips	Data symbols 976 chips	GP 96 CP
•	2560*T <sub>c</sub>	,	<b>→</b>

Figure 5 Burst structure of the burst type 1. GP denotes the guard period and CP the chip periods.

Table 3 The contents of the burst type 2 fields

Chip number (CN)	Length of field in chips	Length of field in symbols	Contents of field
0-1103	1104	cf	Data symbols
		Table 1	
1104-1359	256	-	Midamble
1360-2463	1104	cf	Data symbols
		Table 1	
2464-2559	96	-	Guard period



Figure 6 Burst structure of the burst type 2. GP denotes the guard period and CP the chip periods.

The two different bursts defined here are well-suited for the different applications mentioned above. It may be possible to further optimise the burst structure for specific applications, for instance for unlicensed operation.

#### 5.2.2.1 Transmission of TFCI

Both burst types 1 and 2 provide the possibility for transmission of TFCI both in up- and downlink.

The transmission of TFCI is negotiated at call setup and can be re-negotiated during the call. This means, it is indicated whether the TFCI is applied or not and how many bits are to be allocated for this purpose. If applied, transmission of TFCI is done in the data parts of the traffic burst. Hence the midamble structure and length is not changed. The TFCI information is to be transmitted directly adjacent to the midamble, possibly after the TPC. Figure 7 shows the position of the TFCI in a traffic burst, if no TPC is transmitted. Figure 8 shows the position of the TFCI in a traffic burst, if TPC is transmitted.

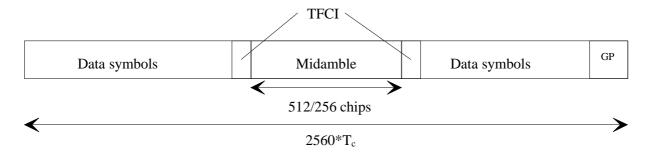


Figure 7 Position of TFCI information in the traffic burst in case of no TPC

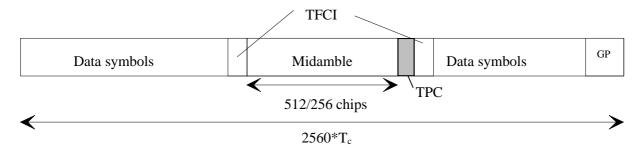


Figure 8 Position of TFCI information in the traffic burst in case of TPC

For every user the TFCI information is to be transmitted once per frame. Different numbers of symbols can be allocated for TFCI. The TFCI is spread with the same spreading factor (SF) as the data parts. The SF of the burst which contains the TFCI is applied to both data and signalling and shall be constant, except when a negotiation between transmitter and receiver initiates a change of the SF. Variable Data Rates shall be handled by DTX.

Two examples of TFCI transmission in the case of multiple DPCHs used for a connection are given in the Figure 9 and Figure 10 below. Combinations of the two schemes shown are also applicable. It should be noted that the SF can vary for the DPCHs not carrying TFCI information.

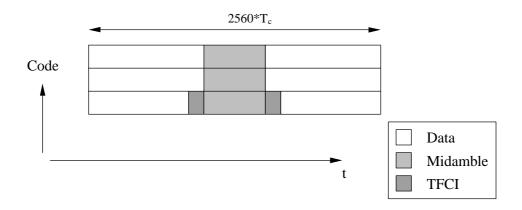


Figure 9 Example of TFCI transmission with physical channels multiplexed in code domain



Figure 10 Example of TFCI transmission with physical channels multiplexed in time domain

#### 5.2.2.2 Transmission of TPC

Both burst types 1 and 2 for dedicated channels provide the possibility for transmission of TPC in uplink.

The transmission of TPC is negotiated at call setup and can be re-negotiated during the call. If applied, transmission of TPC is done in the data parts of the traffic burst. Hence the midamble structure and length is not changed. The TPC information is to be transmitted directly after the midamble. Figure 11 shows the position of the TPC in a traffic burst.

For every user the TPC information is to be transmitted once per frame. The TPC is spread with the same spreading factor (SF) as the data parts. TPC and TFCI are always transmitted in the same physical channel.

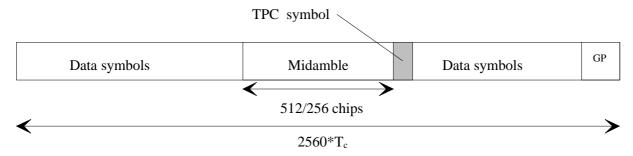


Figure 11 Position of TPC information in the traffic burst

#### 5.2.3 Training sequences for spread bursts

As explained in the section 5.2.1, two options are being considered for the spreading. The training sequences presented here are common to both options.

The training sequences, i.e. midambles, of different users active in the same time slot are time shifted versions of one single periodic basic code. Different cells use different periodic basic codes, i.e. different midamble sets. In this way a joint channel estimation for the channel impulse responses of all active users within one time slot can be done by one single cyclic correlation. The different user specific channel impulse response estimates are obtained sequentially in time at the output of the correlator. Following this principle it is shown hereafter how to derive the midambles from the periodic basic code.

Section 5.2.2 contains a description of the spread speech/data bursts. These bursts contain Lm midamble chips, which are also termed midamble elements. The Lm elements  $\underline{m}_i^{(k)}$ ; i=1,...,Lm; k=1,...,K; of the midamble codes  $\mathbf{m}^{(k)}$ ; k=1,...,K; are taken from the complex set

$$\underline{\mathbf{V}}_{m} = \{1, j, -1, -j\}. \tag{1}$$

K is the maximum number of users, i.e. the available number of spreading codes per time slot.

The elements  $\underline{m}_{i}^{(k)}$  of the complex midamble codes  $\underline{\mathbf{m}}^{(k)}$  fulfil the relation

$$\underline{m}_{i}^{(k)} = (\mathbf{j})^{i} \cdot m_{i}^{(k)} \quad m_{i}^{(k)} \in \{1, -1\}, i = 1, \dots, L_{m}; k = 1, \dots, K.$$
(2)

Hence, the elements  $\underline{m}_{i}^{(k)}$  of the complex midamble codes  $\underline{\mathbf{m}}^{(k)}$  of the K users are alternating real and imaginary.

With W being the number of taps of the impulse response of the mobile radio channels, the Lm binary elements  $m_i^{(k)}$ ;  $i=1,...,L_m$ ; k=1,...,K; of (2) for the complex midambles  $\underline{\mathbf{m}}^{(k)}$ ; k=1,...,K; of the K users are generated according to the following method from a single periodic basic code

$$\mathbf{m} = \left( m_1, m_2, ..., m_{L_m + (K'-1)W + |P/K|} \right)^{\mathrm{T}} m_i \in \{1, -1\}, i = 1, ..., (L_m + (K'-1)W + |P/K|).$$
 (3)

 $\lfloor x \rfloor$  denotes the largest integer smaller or equal to x, K' = K/2.

The elements  $m_i$ ;  $i = 1,...,(L_m + (K'-1)W + |P/K|)$ , of (3) fulfil the relation

$$m_i = m_{i-P}$$
 for the subset  $i = (P+1), ..., (L_m + (K'-1)W + | P/K |).$  (4)

The P elements  $m_i$ ; i = 1,...,P, of one period of m according to (3) are contained in the vector

$$\mathbf{m}_{\mathbf{p}} = \left(m_1, m_2, \dots, m_p\right)^{\mathrm{T}}.\tag{5}$$

With  $\mathbf{m}$  according to (3) the Lm binary elements  $m_i^{(k)}$ ;  $i = 1,...,L_m$ ; k = 1,...,K; of (2) for the midambles of the first K' users are generated based on the following formula

$$m_i^{(k)} = m_{i+(K-k)W} \quad i = 1, ..., L_m; k = 1, ..., K.$$
 (6)

The midambles for the second K' users are generated based on a slight modification of this formula introducing intermediate shifts

$$m_i^{(k)} = m_{i+(K'-k)W+\lfloor P/K \rfloor} \quad i = 1,...,L_m; k = K'+1,...,K.$$
 (7)

Whether intermediate shifts are allowed in a cell is broadcast on the BCH.

In the following the term 'a midamble code set' or 'a midamble code family' denotes K specific midamble codes  $\underline{\mathbf{m}}^{(k)}$ ; k=1,...,K. Different midamble code sets  $\underline{\mathbf{m}}^{(k)}$ ; k=1,...,K; are specified based on different periods  $\mathbf{m}_{\mathrm{P}}$  according (5).

In adjacent cells of the cellular mobile radio system, different midamble codes sets  $\underline{\mathbf{m}}^{(k)}$ ; k=1,...,K; should be used to guarantee a proper channel estimation.

As mentioned above a single midamble code set  $\underline{\mathbf{m}}^{(k)}$ ; k=1,...,K; consisting of K midamble codes is based on a single period  $\mathbf{m}_{\rm p}$  according to (5).

In the Annex A the periods  $\mathbf{m}_{\mathrm{p}}$  according to (5), i.e. the Basic Midamble Codes, which shall be used to generate different midamble code sets  $\underline{\mathbf{m}}^{(k)}$ ; k=1,...,K; are listed in tables in a hexadecimal representation. As shown in Table 4 always 4 binary elements  $m_i$  are mapped on a single hexadecimal digit.

4 binary elements $m_{i}^{}$	Mapped on hexadecimal digit
-1 -1 -1	0
-1 -1 -1 1	1
-1 -1 1 –1	2
-1 -1 1 1	3
-1 1 -1 –1	4
-1 1 -1 1	5
-1 1 1 –1	6
-1 1 1 1	7
1 -1 -1 –1	8
1 -1 -1 1	9
1 -1 1 –1	Α
1 -1 1 1	В
1 1 -1 –1	С
1 1 -1 1	D
1 1 1 –1	Е
1 1 1 1	F

Table 4 Mapping of 4 binary elements  $m_i$  on a single hexadecimal digits

As different Basic Midamble Codes are required for different burst formats, the Annex A shows the codes  $m_{PL}$  for burst type 1 and  $m_{PS}$  for burst type 2. It should be noted that the different burst types must not be mixed in the same timeslot of one cell.

#### 5.2.3.1 Midamble Transmit Power

If in the downlink all users in one time slot have a common midamble, the transmit power of this common midamble is such that there is no power offset between the data part and the midamble part of the transmit signal within the time slot.

In the case of user specific midambles, the transmit power of the user specific midamble is such that there is no power offset between the data parts and the midamble part for this user within one slot.

## 5.2.4 Beamforming and Transmit Diversity

When DL beamforming or TX Diversity is used, at least that user to which beamforming/Tx Diversity is applied and which has a dedicated channel shall get one individual midamble according to chapter 5.2.3, even in DL.

## 5.3 Common control physical channels (CCPCH)

#### 5.3.1 Downlink common control physical channel

Either the BCH, the PCH or the FACH as described in section 4.1.2 are mapped onto one or more downlink common control physical channels (CCPCH). In such a way the capacity of BCH, PCH and FACH can be adopted depending on the operators need.

#### 5.3.1.1 Spreading codes

The downlink CCPCH uses fixed spreading with a spreading factor SF = 16 as described in section 5.2.1.1.

#### 5.3.1.2 Burst Types

The burst type 1 as described in section 5.2.2 is used for the downlink CCPCH. No TFCI is applied for CCPCHs.

#### 5.3.1.3 Training sequences for spread bursts

The training sequences, i.e. midambles, as described in section 5.2.3 are used for the downlink CCPCH.

#### 5.3.1.4 Primary Common Control Physical Channels (PCCPCH)

A CCPCH is referred to as Primary Common Control Physical Channel (PCCPCH) if it is characterised by:

- Transmitted with reference power
- No beamforming
- Known position (timeslot, burst format and code) in frame. The position is known from the Synchronisation Channel (SCH), see section 5.4.
- Carrying BCH

If another physical channel is allocated to the same channelisation code and same timeslot as a PCCPCH, i.e. the same physical resource is used in a multiframe pattern, then this channel has also to use reference power and no beamforming can be applied.

#### 5.3.2 The physical random access channel (PRACH)

The RACH or in case of ODMA networks the ORACH as described in section 4.1.2 are mapped onto one or more uplink physical random access channels (PRACH). In such a way the capacity of RACH and ORACH can be flexibly scaled depending on the operators need.

This description of the physical properties of the PRACH also applies to bursts carrying other signaling or user traffic if they are scheduled on a time slot which is (partly) allocated to the RACH or ORACH.

#### 5.3.2.1 PRACH Spreading codes

The uplink PRACH uses either spreading factor SF=16 or SF=8 as described in section 5.2.1.1. The set of admissible spreading codes for use on the PRACH and the associated spreading factors are broadcast on the BCH (within the RACH configuration parameters on the BCH).

#### 5.3.2.2 PRACH Burst Types

The mobile stations send the uplink access bursts randomly in the PRACH. The PRACH burst consists of two data symbol fields, a midamble and a guard period. The second data symbol field is shorter than the first symbol data field by 96 chips in order to provide additional guard time at the end of the PRACH time slot.

The precise number of collision groups depends on the spreading codes (i.e. the selected RACH configuration. The access burst is depicted in Figure 10, the contents of the access burst fields are listed in Table 7 and Table 8.

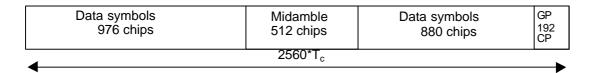


Figure 12 PRACH burst, GP denotes the guard period

Table 7 number of symbols per data field in PRACH burst

Spreading factor (Q)	Number of symbols in data field 1	Number of symbols in data field 2
8	122	110
16	61	55

Table 8 The contents of the PRACH burst field

Chip number (CN)	Length of field in chips	Length of field in symbols	Contents of field
0-975	976	cf	Data symbols
		Table 1	
976-1487	512	-	Midamble
1488-2367	880	cf	Data symbols
		Table 1	
2368-2559	192	-	Guard period

#### 5.3.2.3 PRACH Training sequences

The training sequences, i.e. midambles, of different users active in the same time slot are time shifted versions of a single periodic basic code. The basic midamble codes used for PRACH bursts are the same as for burst type 1 and are shown in Annex A. The necessary time shifts are obtained by choosing either *all* k=1,2,3...,K' (for cells with small radius) or *uneven*  $k=1,3,5,...\le K'$  (for cells with large radius). Different cells use different periodic basic codes, i.e. different midamble sets.

For cells with large radius additional midambles may be derived from the time-inverted Basic Midamble Sequence. Thus, the second Basic Midamble Code  $m_2$  is the time inverted version of Basic Midamble Code  $m_1$ .

In this way, a joint channel estimation for the channel impulse responses of all active users within one time slot can be performed by a maximum of two cyclic correlations (in cells with small radius, a single cyclic correlator suffices). The different user specific channel impulse response estimates are obtained sequentially in time at the output of the cyclic correlators.

#### 5.3.2.4 Association between Training Sequences and Spreading Codes

For the PRACH there exists a fixed association between the training sequence and the spreading code. The generic rule to define this association is based on the order of the spreading codes  $\mathbf{a}_{Q}^{(k)}$  given by k and the order of the midambles  $\mathbf{m}_{j}^{(k)}$  given by k, firstly, and j, secondly, with the constraint that the midamble for a spreading factor Q is the same as in the upper branch for the spreading factor Q. The index j=1 or Q indicates whether the original Basic Midamble Sequence (j=1) or the time-inverted Basic Midamble Sequence is used (j=2).

- For the case that all k are allowed and only one periodic basic code  $m_1$  is available for the RACH, the association depicted in Figure 13 is straightforward.
- ♦ For the case that only odd *k* are allowed the principle of the association is shown in Figure 14. This association is applied for one and two basic periodic codes.

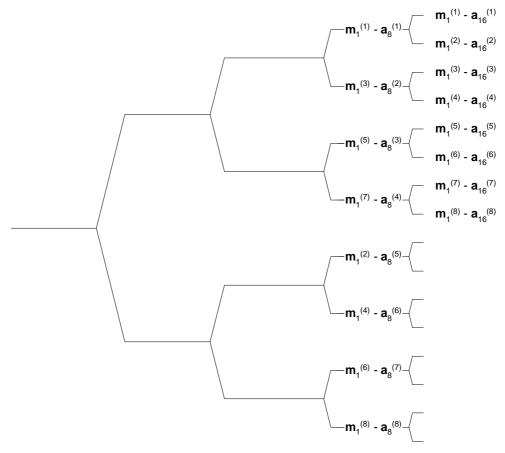


Figure 13 Association of Midambles to Spreading Codes in the OVSF tree for all k

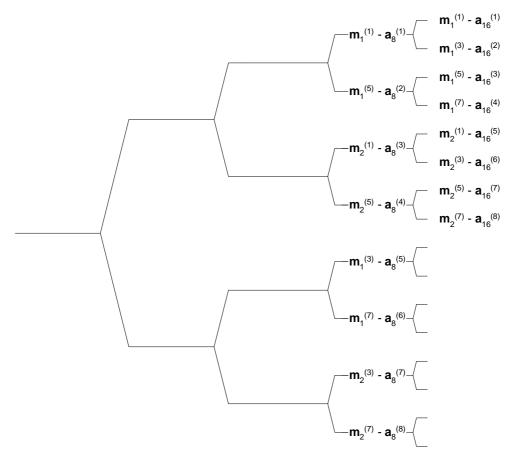


Figure 14 Association of Midambles to Spreading Codes in the OVSF tree for odd k

## 5.4 The physical synchronisation channel (PSCH)

In TDD mode code group of a cell can be derived from the synchronisation channel. Additional information, received from higher layers on SCH transport channel, is also transmitted to the UE in PSCH in case 3 from below. In order not to limit the uplink/downlink asymmetry the PSCH is mapped on one or two downlink slots per frame only.

There are three cases of PSCH and PCCPCH allocation as follows:

- Case 1) PSCH and PCCPCH allocated in TS#k, k=0....14
- Case 2) PSCH in two TS and PCCPCH in the same two TS: TS#k and TS#k+8, k=0...6
- Case 3) PSCH in two TS, TS#k and TS#k+8, k=0...6, and the PCCPCH in TS#i, i=0...14, pointed by PSCH. Pointing is determined via the SCH from the higher layers.

These three cases are addressed by higher layers using the SCCH in TDD Mode. The position of PSCH (value of k) in frame can change on a long term basis in any case.

Due to this PSCH scheme, the position of PCCPCH is known from the PSCH. The PCCPCH are using burst type 1, spreading code  $a_{\mathcal{Q}=16}^{(k=1)}$  and midamble  $m_1^{(1)}$ . To simplify measurements of PCCPCH power, this midamble shall not be used by other physical channels in the same timeslot.

Figure 15 is an example for transmission of PSCH, k=0, of Case 2 or Case 3.

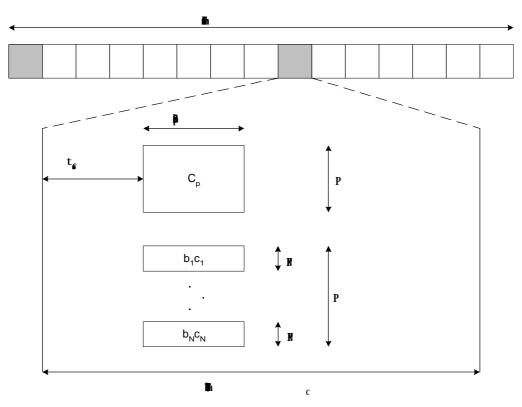


Figure 15 Scheme for Physical Synchronisation channel PSCH consisting of one primary sequence  $C_p$  and N=3 parallel secondary sequences in slot k and k+8

(example for k=0 in Case 2 or Case 3)

As depicted in Figure 15, the PSCH consists of a primary and three secondary code sequences with 256 chips length. The primary and secondary code sequences are defined in TS 25.223 chapter 7 'Synchronisation codes'. The secondary codes are transmitted either in the I channel or the Q channel, depending on the code group.

Due to mobile to mobile interference, it is mandatory for public TDD systems to keep synchronisation between base stations. As a consequence of this, a capture effect concerning PSCH can arise. The time offset  $t_{\text{offset}}$  enables the system to overcome the capture effect.

The time offset  $t_{\text{offset}}$  is one of 32 values, depending on the cell parameter, thus on the code group of the cell, cf. 'Table 7 Mapping scheme for Cell Parameters, Code Groups, Scrambling Codes, Midambles and  $t_{\text{offset}}$ ' in [8]. The exact value for  $t_{\text{offset}}$ , regarding column 'Associated  $t_{\text{offset}}$ ' in Table 7 from [8] is given by:

$$t_{offset,n} = n \cdot T_c \left[ \frac{2560 - 96 - 256}{31} \right]$$
  
=  $n \cdot 71T_c$ ;  $n = 0,...,31$ 

Please note that  $\lfloor x \rfloor$  denotes the largest integer number less or equal to x and that  $T_c$  denotes the chip duration.

## 5.5 Physical Uplink Shared Channel (PUSCH)

For Physical Uplink Shared Channel (PUSCH) the burst structure of DPCH as described in section 5.2 shall be used. User specific physical layer parameters like power control, timing advance or directive antenna settings are derived from the associated channel (FACH or DCH). PUSCH provides the possibility for transmission of TFCI in uplink.

## 5.6 Physical Downlink Shared Channel (PDSCH)

For Physical Downlink Shared Channel (PDSCH) the burst structure of DPCH as described in section 5.2

shall be used. User specific physical layer parameters like power control or directive antenna settings are derived from the associated channel (FACH or DCH). PDSCH provides the possibility for transmission of TFCI in downlink.

To indicate to the UE that there is data to decode on the DSCH, three signalling methods are available:

- 1) using the TFCI field of the associated channel or PDSCH
- using on the DSCH user specific midamble derived from the set of midambles used for that cell
- using higher layer signalling.

When the midamble based method is used, the UE shall decode the PDSCH if the PDSCH was transmitted with the midamble indicated for the UE by UTRAN.

## 5.7 The Page Indicator Channel (PICH)

The Page Indicator Channel (PICH) is a physical channel used to carry the Page Indicators (PI). The PICH substitutes one or more paging sub-channels that are mapped on a CCPCH, see 6.2.2. The page indicator indicates a paging message for one or more UEs that are associated with it.

The page indicators of length  $L_{Pl}$ =2,  $L_{Pl}$ =4 or  $L_{Pl}$ =8 symbols are transmitted in a normal burst (type 1 or 2) as seen in Figure 16. The PI may be repeated within one superframe. The number of repetitions within one superframe is given by the repetition factor RF<sub>Pl</sub>. The number of page indicators N<sub>Pl</sub> per superframe is given by the number of time slots per superframe N<sub>PlCH</sub>, used for the PICH, the number L<sub>Pl</sub> of symbols for the page indicators, the burst type BT and the repetition factor of the paging indicators, RF<sub>Pl</sub>. The same burst type is used for the PICH in every cell. In case of L<sub>Pl</sub>=4 or L<sub>Pl</sub>=8, one symbol in each data part adjacent to the midamble is left over. These symbols are filled by dummy bits that are transmitted with the same power as the PI. Figure 16 shows an example for L<sub>Pl</sub>=4, BT 1, N<sub>PlCH</sub>=4, RF<sub>Pl</sub>=2.

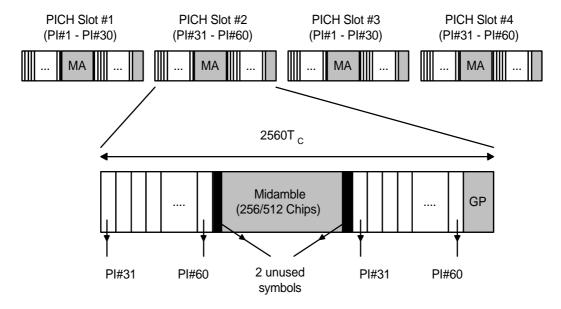


Figure 16 Example of PI Transmission in the PICH

## 6 Mapping of transport channels to physical channels

This section describes the way in which transport channels are mapped onto physical resources, see Figure 17.

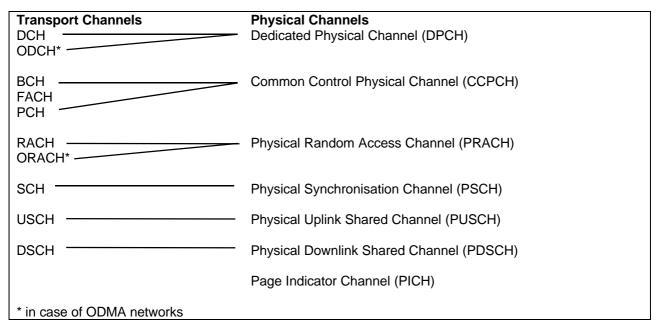


Figure 17 Transport channel to physical channel mapping

## 6.1 Dedicated Transport Channels

A dedicated transport channel is mapped onto one or more physical channels. An interleaving period is associated with each allocation. The frame is subdivided into slots that are available for uplink and downlink information transfer. The mapping of transport blocks on physical channels is described in TS25.222 ("multiplexing and channel coding").

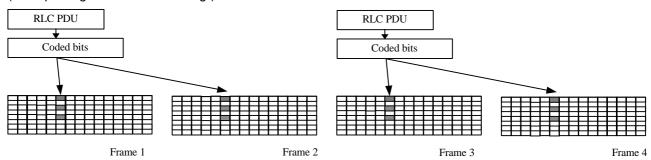


Figure 18 Mapping of PDU onto the physical bearer

For NRT packet data services, shared channels (USCH and DSCH) can be used to allow efficient allocations for a short period of time.

An ODCH is also mapped onto one or more sets of slots and codes within a TDD frame as shown in Figure 4. The actual transmission mode (i.e. combination of slots, codes, TX power, interleaving depth etc.) chosen for a relay link will be negotiated between nodes prior to transmission. Several of these transmission mode parameters can be adapted during transmission due to changes in propagation and data traffic.

## 6.2 Common Transport Channels

#### 6.2.1 The Broadcast Channel (BCH)

The BCH is mapped on one or several CCPCHs. The secondary SCH indicates in which timeslot a mobile can find the PCCPCH containing BCH. If the BCH uses more resources than PCCPCH, the BCH in PCCPCH comprises a pointer to additional CCPCH resources for BCH. The CCPCHs allocated by BCH can be shared with other common control channels, e.g. PCH or FACH, according to a multi-frame structure.

#### 6.2.2 The Paging Channel (PCH)

The PCH is mapped onto one or several CCPCHs so that capacity can be matched to requirements. The location of the PCH is indicated on the BCH. It is always transmitted at a reference power level.

To allow an efficient DRX, the PCH is divided into several paging sub-channels within the multiframe structure of one superframe. Examples of multiframe structures are given in the Annex B of this document. Each paging sub-channel is mapped on 2 consecutive frames that are allocated to the PCH on the same CCPCH. Thus, the number of paging sub-channels per CCPCH is half of the number of frames used for the PCH in one superframe. Layer 3 information to a particular paging group is transmitted only in the associated paging sub-channel. The assignment of UEs to paging groups is independent of the assignment of UEs to page indicators.

#### 6.2.3 The Forward Channel (FACH)

The FACH is mapped onto one or several CCPCHs. The location of the FACH is indicated on the BCH and both, capacity and location can be changed, if required. FACH may or may not be power controlled.

#### 6.2.4 The Random Access Channel (RACH)

The RACH has intraslot interleaving only and is mapped onto PRACH. The same slot may be used for PRACH by more than one cell. Multiple transmissions using different spreading codes may be received in parallel. More than one slot per frame may be administered for the PRACH. The location of slots allocated to PRACH is broadcast on the BCH. The PRACH uses open loop power control. The details of the employed open loop power control algorithm may be different from the corresponding algorithm on other channels.

## 6.2.5 The Synchronisation Channel (SCH)

The SCH is mapped onto the PSCH as described in section 5.4.

## 6.2.6 Common Transport Channels for ODMA networks

The ORACH is used to transfer short probes or short protocol data units (PDU) between one or more nodes for routing and resource allocation control.

To limit the transmission time of short probe PDUs on the ORACH then this data should be transmitted as one burst on one code. That is, one probe burst should be transmitted on one  $2560^*T_c$  timeslot (which as described in section 5.1 would be configured as an ORACH slot).

Since the ORACH is a common control channel used to transfer probes between one or more nodes a common fixed spreading factor should be adopted.

## 6.2.7 The Uplink Shared Channel (USCH)

The uplink shared channel is mapped on one or several PUSCH, see section 5.5.

## 6.2.8 The Downlink Shared Channel (DSCH)

The downlink shared channel is mapped on one or several PDSCH, see section 5.6.

## Annex A

# A.1 Basic Midamble Codes for Burst Type 1 and PRACH Burst Type

In the case of burst type 1 (see section 5.2.2) or in the case of PRACH burst the midamble has a length of Lm=512, which is corresponding to:

K'=8; W=57; P=456.

Depending on the possible delay spread cells are configured to use midambles which are generated from the Basic Midamble Codes (see Table A-1)

- for all k=1,2,...,K; K=2K' or
- for k=1,2,...,K', only, or
- for odd k=1,3,5,...,≤ K', only.

Depending on the cell size midambles for PRACH are generated from the Basic Midamble Codes (see Table A-1)

- for k=1,2,...,K' or
- for odd k=1,3,5,...,≤ K', only.

The cell configuration is broadcast on BCH.

The mapping of these Basic Midamble Codes to Cell Parameters is shown in TS25.223.

Table A-1: Basic Midamble Codes  $m_p$  according to equation (5) from section 5.2.3 for case of burst type 1

Code ID	Basic Midamble Codes m <sub>PL</sub> of length <i>P</i> =456
m <sub>PL0</sub>	8DF65B01E4650910A4BF89992E48F43860B07FE55FA0028E454EDCD1F0A09A6F0296 68F55427253FB8A71E5EF2EF360E539C489584413C6DC4
m <sub>PL1</sub>	4C63F9BC3FD7B655D5401653BE75E1018DC26D271AADA1CF13FD348386759506270 F2F953E93A44468E0A76605EAE8526225903B1201077602
m <sub>PL2</sub>	8522611FFCAEB55A5F07D966036C852E7B15B893B3ABA9672C327380283D168564B8 E1200F0E2205AF1BB23A58679899785CFA2A6C131CFDC4
m <sub>PL3</sub>	F58107E6B777C221999BDE9340E192DC6C31AB8AE85E70AA9BBEB39727435412A5A 27C0EF73AB453ED0D28E5B032B94306EC1304736C91E922
m <sub>PL4</sub>	89670985013DFD2223164B68A63BD58C7867E97316742D3ABD6CBDA4FC4E08C0B0CBE44451575C72F887507956BD1F27C466681800B4B016EE
m <sub>PL5</sub>	FCDEF63500D6745CDB962594AF171740241E982E9210FC238C4DD85541F08C1A010 F7B3161A7F4DF19BAD916FD308AB1CED2A32538C184E92C
m <sub>PL6</sub>	DB04CE77A5BA7C0E09B6D3551072B11A7A43B6A355C1D6FDCF725D5878749998957 48DD09832ABC35CEC3008338249612E6FE5005E13B03103
m <sub>PL7</sub>	D2F61A622D0BA9E448CD29587D398EF8CDC3B6582B6CDD50E9E20BF5FE2B325804 1E14D60821DC6725132C22D787CD5D497780D4241E3B420D
m <sub>PL8</sub>	7318524E62D806FA149ECC5435058A2B74111524B84727FE9A7923B4A1F0D8FCD892 08F34BEE5CADEB90130F9954BB30605A98C11045FF173D
m <sub>PL9</sub>	8E832B4FA1A11E0BF318E84F54725C8052E0D099EF0AF54BC342BEE44976C9F38DE 701623C7BF6474DF90D2E2222A4915C8080E7CD3EC84DAC
m <sub>PL10</sub>	CFA5BAC90780876C417933C43103B55699A8AD51164E590AF9DA6AF0C18804E1F748 62F00CE7ECC899C85B6ABB0CAD5E50836AD7A39878FE2F
m <sub>PL11</sub>	AD539094A19858A75458F1B98E286A4F7DC3A117083D04724CBE83F34102817C5531 329CDB437FFF712241B644BDF0C1FEC8598A63C2F21BD7
m <sub>PL12</sub>	BEB8483139529BDE23E42DA6AB8170DD0BFBB30CE28A4502FAF3C8EDA219B9A6D5 B849D9C9E4451F74E2408EA046061201E0C1D69CF48F3A94
m <sub>PL13</sub>	C482462CA7846266060D21688BA00B72E1EC84A3D5B7194C8DA39E21A3CE12BF512 C8AAB6A7079F73C0D3E4F40AC555A4BCC453F1DFE3F6C82

m <sub>PL14</sub>	9663373935FD5C213AC58C0670206683D579D2526C05B0A81030DDF61A221D8A68EA D8D6F7AA0D662C07C6DCD0115A54D39F03F7122B0675AC
m <sub>PL15</sub>	387397AE5CD3F2B3912C26B8F87CE82CEFEC55507DB08FB0C4CF2FD6858896201A CA7264281D0298440DD3481E5E9DDB24C16F30EB7A22948A
m <sub>PL16</sub>	AFE9266843C892571B6230D808788C63B9065EA3BDFF687B92B8734A8D7099559FEA 22C9416576D0C087EB4503E87E356471B330182A24A3E6
M <sub>PL17</sub>	6E6C550A4CB74010F6C3E0328651DF421C456D9A5E8AE9D3946C10189D72B579184 552EE3E799970969C870FE8A37B6C4BA890992103486DC0
m <sub>PL18</sub>	D803CA71B6F99CFB3105D40F4695D61EB0B62E803F79302EE3D2A6BF12EA70D304B 181E8B38B3B74F5022B67EB8109808C62532688C563D4BE
m <sub>PL19</sub>	E599ED48D01772055DBE9D343A4EA5EABE643DA38F06904FC7523B08C4101F021B1 99AF759A00D9AC298881D79413A77470992A75C771492D0
m <sub>PL20</sub>	9F30AC4162CE5D185953705F3D45F026F38E9B5721AEFE07370214D526A2C4B344B5 08B57BFB2492320C05903C79CBEE08C6E7F218B57E14D6
m <sub>PL21</sub>	B5971060DA84685B4D042ED0189FAF13C961B2EF61CC164E363B22AAB14AC8AF607 906C1C6E04F2054C687AA6741A9E70639857DA02B6FFFFA
m <sub>PL22</sub>	97135FC2226C4B4A5CBA5FCA3732763B87455F73A1148006F3DF214BD4C936D061E0 4045160E2CE33B9CD09D08FDE2A37F4E998322B4401D27
m <sub>PL23</sub>	4D256D57C861B9791151A78D5299C56D116B6178B2A2D04BB95FB76540AF28341DC6 EC4E7ED3BF9E508478D9C8F44914805DA82429E1CF320E
m <sub>PL24</sub>	858EF5C84CE32D18D9ABA110EEA7474CF0CD70254D2928C3F4DFF6BB3A518587CA DA19029078AC90A8336C8178203BE3289E601F07D089CB64
m <sub>PL25</sub>	920A8796A511650AEF32F93DD3C39C624E07AE03CE8C96139973F54DCB9803C5164 ADB502D4FF561564D607037FCD172921F1982B102C3312C
m <sub>PL26</sub>	485C5DAE76B360A9C56E20B8422EA3E6ACF07CB093B5587CB0E6A5498A4714081EA 98DBCDB0482B26E0D097C03444473D233BEF3C8E440DEBF
m <sub>PL27</sub>	565A9D54EA789892B024F97E728E8EE112411942C48BD0C5BC8AA457D8DC9941F0F7424B38643FFE6521CD306FBC56FE10F1428D4C245B5606
m <sub>PL28</sub>	5AEF2C0C2C378179A1AC36242E6B3EDB72C42D3624437674F8D51260C0898C20183 7CBA14E9E23D1EF6451C4ACF27AB031F457A8A1BFD148AE
m <sub>PL29</sub>	87D8FE685417822A23D925307E6C11081ADAC4702BCCD9BE448E78984D109B50DEF 5B7C58BC71EA1F0A6826BA8AD1978843E7697F3E416AADA
m <sub>PL30</sub>	84802B72AF27B5BE724D1FB629E0E627BDB0D9061292562F98350C1D0C9D4B9D8E2 BF71123C82EBB161003AE9829E07244D78F19926F8847A2
m <sub>PL31</sub>	8CCB5128238BCB088E30972D62792AEF02B9BBDDCAD68C9916C00BF91CBE788B0F 03851FAAF88605534FD73436C259D270B1013CB14226F658
m <sub>PL32</sub>	62F4E6FAC2BF1979CE6854AA2D33534BFB2F946519101A6589131C3640707D40E67E D804AF8736AD213CAF5935741900061967E8285C27E34C
m <sub>PL33</sub>	4095E5B4EEAFCDF68A34B267EEA28D8444FA533900F41499E260D2E65C256A52E1D D5861F5227C98E00687D107233F51A1167BCF72FB184654
m <sub>PL34</sub>	5630E9A79FCAD303404D9E5A802299162657AAC734761C6E90DA8BCE4F61A763E0B B48D3FEB3F78468C828ABA4828DAD06E0F904CFD40421DC
m <sub>PL35</sub>	CD12B24C0BCA8AAC1FCBF0500A3BC684A180E863D888F2506B48C68ECF17F76CB2 85991FBA18EB6397211FAD002F482D57A258CD45DE3FF1A6
m <sub>PL36</sub>	AFCF2A50877286CD3405442730C45514F082D9EC296B367C0F64F04C4E0007DCA9E 50BEED5C102126E319ACBC64F1729272F2F72C9397029FE
m <sub>PL37</sub>	18F89EE8589D20882A72A44DCCDF0050F0A3D88DBA6531614973D26905FDF41E3F7 79FF0648E8AF1540928511BCF4C25D9C64AF34AC31B8965
m <sub>PL38</sub>	F890D550F33F032ECDA3A51FED427D634F64EB29AF1332A23CD961258E4BAED040E 7B336918E250EC272A12816B9EBFFA1E0AE401185F08C10
m <sub>PL39</sub>	ACE5DD61506047E80FB7D41BD3992DF4D7F18EB46CC145C0E9105428C2F8F299141 F5D66691904A7DC2513A3B83994ACB1292246B32818FE9D
m <sub>PL40</sub>	150680FF900C9B46E1E24D54BE2238CB950A934E5CCDE9BC3939EB51CB0AE202B7 D339EEC2018B33A0AB9B63DA5D512D64FB58C0E51A1C82C2
m <sub>PL41</sub>	51A579EED2663A002D32D10A0753173612F4D5BA167D1807C61F25C4D42C063682E8 E9DD019F79D446A046EB3F75E50FEB228DC52F08E694B6
m <sub>PL42</sub>	CDC644FE4C0C6897604F9D14D714123BF16FFF0E49F35F674908CA60653702FE27B CCA2A47098453AF8661055C8C549EB6A951A8396AD4B94D
m <sub>PL43</sub>	750A10366C595373C5001CA3E4239764B1409D602CF6052B39BC6A3255A15FE06C78

	2C4C5F847026A7E79838A2933A61C77BB6CBF5915B2DA5
m <sub>PL44</sub>	B7490686D78E409082C4C48FE18D4C35429C20AADF96076B92FC4E85490664753DB0
TTPL44	891A0B27FD849BB7FCA99E3B38F22F8C662852C0D35AA6
m <sub>PL45</sub>	D86E1B575B47D23DA811806A54C231281F03317830E7BD305D3CAA7D6382A5233104
1 [45	CFD54D22DF9F34535E5B390D9040CF1375FEA44CEC29E2
m <sub>PL46</sub>	828655960C026EC67B683480992AC2ED2C43ABC606F5220C2945F373470BE7ED5BC
FL40	CF7C1AA0986BBCCC84F11F1658AA568FAA0A60C5F0B5BFA
m <sub>PL47</sub>	D76230E02C8533653AAB99B288AA2ADE25A1C1BF28516C04239240EAF1EFC0B9897
TTPL47	4B51F886861D8A1E9F5D62CFFEC309F071A9716B325101B
m <sub>PL48</sub>	EA207662865B8A07D69648964DED818EE474A90B94473408871880E63EF0596B9FCF
TTPL48	EC3C06B86EA6AD2B06C91672EFB33C70241A5450B59B8A
m	9CB5459549909835FAB22F0D99298C120ACF479F814CCE749079D40688F2810103776
$m_{PL49}$	2F125C776DA9C5FA1FCE0E76E452F8185354FDCDE94E2
m	227506304AEC1D6F93569B51FDC3405A0F38194F65BE17163A3CB9827A35AECEA75
$m_{PL50}$	
	7D020FE249377ECD561428A38FEED004EC859C272563185
$m_{PL51}$	96B9AEC9938910F0E533422A3977519B05CD4AD3909BC15A7502D48D49C124FA192
	A8E57027CFEB11DF542010603CE5C9FDF8E626D4FBF8CF4
$m_{PL52}$	A6AAD06E095A9BE0BD9F8A2ED40C3CBDBAE91C700CBB778C8696CC06F3A675C16
	BDB2918E5F2111005A8727206DC6A9684E05655185C398EEB
$m_{PL53}$	CD168D384A78DA172991AD333EE2A9880905AFE59E2A2A4AC4414C40F82874F98A3
	CBE7B44F4C7F4710B35FD88AFC0399FAEB070EB9CA4D30A
$m_{PL54}$	22016CA87AD1549174A8699DD65599697871091457E83E0912E7E77A06531C209394D
	283D18A38662B73681DD9C5BF330FED978BDA7D487CA8
$m_{PL55}$	B9401B0843AA6F7827A13BD66C922287E8886C31EB5B90B82B472CCD6DA3D8D4FB
	F78B8F8496DFA8252B06429D5DD17142F1C908ACCD70EA0C
$m_{PL56}$	E42B9EFDC5D09AC27B3C7DA28D02493A70521223B9D7A76A9D13E9C171017964D16
	A70C08EAD02C3DC948889C23E365AFCF01BF20B89B0BF5C
$m_{PL57}$	9DA0180168DB915E9F3597B59312198E1B5CC00D743C2ECB0DBAADA3E35A2465ED
	1EAA9D74734D49A313CE4DFF020D0760E3153DC485603943
m <sub>PL58</sub>	B6C966619ECB98191D719C187C07BD503425650CAA3A2D1F2DF5212B1441D7A0C1D
	36A4C9C2550240AD17CA43BB3943DFFFBF1E283D81299CC
m <sub>PL59</sub>	DB0E8C41F08A03D477C1AA548799274C4BF3EB68F2636166FDC8D4B1E7132539930
. 200	297E228BA232BB5C279FA5ECA3AC10E24361AF050A453B8
m <sub>PL60</sub>	89BCE2DE2974EEBA833CF32F224C85A2891484478527DB48FA6ECEA84C5E288CC3
1 200	914CB54ADA0476278750187F68FBEA41017E1E58DF1A5A3D
m <sub>PL61</sub>	70A457D1314A278625443EEB52520815EC92CEF17417B97440DCB531BC1CE83212F6
THE LOT	3270418D0FBDE71F6DB9E0EA88772E1E4535B6633E4425
m <sub>PL62</sub>	C388460AD54B36C4452CF0433BD347100ACCC24C79C535AD3E1F23FE0425E93A044
FL02	C553BFA116E09AA4BB32F13CFA76FBA1BC17520F45EFD44
m <sub>PL63</sub>	0BAFCADCDF9AA2846681782CD3B90CA036A863C78EE1507620BC394D0C6804B4C9
PL63	7A15BC9C0D7B79E6892EA1BFF1A0DD9573A9213AB140D0D2
m <sub>PL64</sub>	833B0226789A62882FCD27A30885E67872B1A1C2FA484AD498011599DD57E8E2A07A
IIIPL64	560B47167AA5F60EF47177DBB1632D5387A2896348640B
m	8F52820323ABA5E6C6B465821B621600B980E59F53A599DA5646BA103214336836CF1
$m_{PL65}$	7E3386CE4FB2BC5F25CCB30CF7F500546828EC8786B8E
m	E2E9A29C3C8207B9A4508FD2F667A159F068EEE8D00686F46EA904C3692C1D79DFF
$m_{PL66}$	1B32E5103720D47B4B58AC35384A26087027E141B3126A8
<b>m</b>	70E7C39FD2D3AE1DCE341699A544D801A8688A6EE47C5CB3630022147DDC06241F
$m_{PL67}$	
	C5337A348A462B2472DEC5E104DD520ADA5114DB065D4B0D
$m_{PL68}$	9E3483CAB164BD053C4971D4D87494CC689033D589EF80E5453376E4A8DCC02183B
	98C36B0FF7DDC0AD07FCE8B4D5164371BD03A2110AD1247
$m_{PL69}$	04DA1C649B0608938DAADD3FE920A4F681690C54505429DBDCDCF10067AB5714BC
	DDFE1F28692710F794765781C1D233344E119BEE8A8416DC
$m_{\text{PL70}}$	7A18D6D30BDF44410714C3DCA27D8F9EA8A542D87122205640B98313C91AD9A0B99
	3A5A7BC3E035F93B88BBE6D4204BC82A9FA8D4C1A7618CF
$m_{PL71}$	EB9525E10265A48733C8E0E77E459310112A71DCA680F68AC044B64BC0A31D02EEA
	0F7ACAAAB7F1E574E94FEA2D1301CB14B03263DA8122B76
$m_{\text{PL72}}$	E706C6ED2D6F89153835079BE0C6D45310845EF2F9F6C6AE91B7419810508BA501C0
	148BF09955BAD90D6391BA8EBA5CEFBD23221CC75143D7

A2761402EC97FD8BC5184AF32E37FBC47162A2357D18751		
FOFF652B2238139F46D8254D1A2C1C222416BA71ECQCC900ED1442452D7F44C798BC	$m_{PL73}$	DF071A10AC4120CD1431590BEDCFF9483CA7047B19590D035D309240BDB4264E9A3
65FF40671B88074EA0B74EA0B74C6510996EEAC49SC5B49C37DEB		
1C86BD82EDA81FD6541BD3837B5552A953791456D93B06C62C650D86CFBEC269AFI	$m_{PL74}$	
D772783064062C0375189428C6DA2E6038302EF9E404B70		
Imp	$m_{PL75}$	
CC658E5A9E966611B8A3A1488406C41C09D1560BEDA4F1B  MFL77  1A69EC9D053C7E84BAE7A48CCC71857D0C6B06D1065E3EA4633B133AA022B8104F  6EE7C69B86184B746C882295B0A16608F27C8A0E3B4EFEAD  C958E207081BC097C6BDD2583263E73F9AAAFD13F0548D2EBD835824418F11E5411*  C958E37081BC097C6BDD2583263E73F9AAAFD13F0548D2EBD835824418F11E5411*  C958E713AB234BE41234735828167DE331EDD218B8EA52  56D6408399F23C2ED88E60F68111D69A91A3ADa9A732AC57CA08F86CC28B3CF4E4B02EBBA0BCE5CAE5BACC4D52004070797C04093A84BB18DBA  E662E7043867BE250764DA0598D34A582A6198408B505E6211DD6286E93A37F95B1E  A680C0C5F3E777E3F7168D75495D59043217FC0E22ZE16  A680C0C5F3E777E3F7168D75495D59043217FC0E22ZE16  A680C0C5F3E777E3F7168D75495D59043217FC0E22ZE16  A680C0C5F3E777E3F7168D75495D59043217FC0E22ZE16  MFL83  T952641C22227AD478A079E712F1A98F74B6833303322EF8880B931FEBF8322F- 302944E80BED468A0AS16D410B183D863795992DA7DDB  5100336C05F9E5B735201906C1C588858E0DAF56130DF5554B9AB21CA15311A90290  624CD63E03F5EDA49DB7A0C32AB5F1CA427A2D5633FDA5  C696DC993BFAEA9A61B781B9C5C3F5CFAA4C8339D8B03498B0349883D0482A41AC7  B6522425959846E561D26A30FF794205C601A588897368E2  MFL83  MFL83  D562297561AFF42D3168296C11534E439BEF3E2B0348BC704625AA08391235075EE0  DE0A79AB03222FEDB27218C56F96EAC2F91CC8FCE64B12  MFL86  MFL86  MFL87  MFL87  MFL87  MFL88  B658025942561948443786C438997129623E975AB8B3FF58037F1859E2FA8C62C2C  901E8506916029A2C3F8CAD9A26AE2C6652F48800859F5C  901E8506916029A2C3F8CAD9A26AE2C6652F48800859F5C  B76A040DA8FD6F987B1CD5C2AA1C1B045E64475F078DA8D  MFL89  MFL89  MFL89  B61887001D4144405ED6419E9EE1D1D346D924ED57ADF048B187948099976B2D1501A  60DFF8287AD44C48783DF0C14A5A43C273B38C2BC79B18B187948099976B2D1501A  60DFF8287AD44C48783DF0C14A5A43C273B38C2BC79B18B187948099976B2D1501A  60DFF8287AD44C48783DF0C14A5A43C273B38C2BC79B18B187948099976B2D1501A  60DF8287AD44C48783DF0C14A5A5A272T3D185E31EB1819948099976B2D1501A  60DF8287AD44C46C7873DF0C14A5A5A27273D185E31EB18130B28C794C0B4D101  MFL89  MFL89		D772763064062C03751B9428C6DA2E60383025F9E404B70
MPILT7	$m_{PL76}$	B390978DD2552C88AABA7838489A6F5A8E9C41E95FFA2215819BF8A5BFE39C8A706
GEETCG9B6184B746C8822958B0A16686F27C8A0E384FFEAD		CC658E549E966611B843A1468406C41C09D1560BEDA4F1B
GEETCG9966184B746C8822958B0A16686F27C8A0E384EFEAD	m <sub>PL77</sub>	1A69EC9D053C7E84BAE7A48CCC71857D0C6B06D1065E3EA4633B133AA022B8104F
™PLTB         C95B2070816DC97C6DBDD2583263E73F9AAAFD13F054BD2EDB35824418F11E5411-005FB713AB234BE412347358281C7DE331EDD21B8BEA52           ™PLT9         S6D6408399F23C2ED85EE0F68111D69A91A3AD9A732AC57CA08F86CC28B3CF4E4BC 2EBBA0BCE5CAE5BACC4D52004070797C04093A84BB18DBA           #6D6408399F23C2ED85EE0F68111D69A91A3AD9A732AC57CA08F86CC28B3CF4E4BC 2EBBA0BCE5CAE5BACC4D52004070797C04093A84BB18DBA           #6D620E2F043867B250764ADA0596D34A882A61B9408B505E6211DD6286E93A37F95B1E A680C0C5F3E777E3F71E8D75495D59043217FC0E222E16           #7D621         27D5E681C222297AD478A079EF12F1A98F744B6633530332EF8880B931FEBF8322F-302944E80BED468A0A516D410B183D863795992DA7DDB           #7D622         5100338C05F9E5BF35201906C1C588888E0DAF56130DF5554B9AB21CA15311A90290 624CD63E03F5EDA49DB7A0C32AB5F1CA427A2D5635FDA5           #7D623         C696DC993BFAEA9A61B781B9C5C3F5CFAA4C8339D8B03A9B0387883D0482A41AC7 8D6522425959846E561D26A30FF79A205C801A85889736B2           #7D63         #7D63         #7D64205C801A85889736B2         *7D658C2425959846E561D26A30FF79A205C801A85889736B2         *7D658C2425959846E561D26A30FF79A205C801A85889736B2         *7D658C2425959846E561D26A30FF79A205C801A85889736B2         *7D658C2425959846E561D26A30FF79A205C801A85889736B2         *7D658C2425959846E561D26A30FF79A205C801A85889736B2         *7D658C2425959846E561D26A30FF79A205C801A85889736B2         *7D658C2425959846E561D26A30FF79A205C801A85889736B2         *7D658C2425958946E561D26A30FF79A205C801A85889736B2         *7D658C2425958946E561D26A30FF79A205C801A85889758F758037F1859E2FA8C62C2ED59136A300C5993F745E21E2F76875A2D8D2F78A983F75F58037F1859E2FA8C62C2ED59136A300C5993F75A25E2FA26F2A3D875A3D8D2FF3A5D8A95A3D8A95A3D8A95A3D8A9		6EE7C69B6184B746C8822958B0A16686F27C8A0E3B4EFEAD
MP <sub>FL09</sub>	M <sub>DI 70</sub>	
MP_L79         56D6408399F23C2ED85EEDF68H11D69A91A3AD9A732AC57CA08F86CC28B3CF4E4B0           MP_L80         EBBA0BCESCAE5BACC4D52004070797C04093A84BB18DBA           MP_L81         E662E7043867BE250764DA0596D34A582A619B408B505E6211DD6286E93A37F95B1E           A680C0C5F3E777F3F71E8D75495D59043217FC0E222E16           MP_L81         ZD5E681C2222297AD478A079EF12F1A8P5744B6335303322EF8880B931FEBF8322F-302944E80BED468A0A516D410B183D863795992DA7DDB           MP_L83         5100336C05F9E5BF35201906C158885BE0DAF56f330DF5554B9AB21CA15311A90290           624C0B3C03F3E5DA49DB7A0C32AB5F1CA427A2D5635FDA5           MP_L83         C696DC933BFAEA9A61B781B9C5C3F5CFAAAC3339D8B03A9B0387883D0482A41AC7           MP_L84         D562297561AFF42D3168296C1153E4E39BE77B2EB0348BC704625AA08391235075EE0           MP_L85         D606768FC01CC0A551F8ACC366907129632E975AB8B3FF58037F1859E2FA8C62C2C           MP_L85         D906768FC01CC0A551F8ACC366907129633E975ABBB3FF58037F1859E2FA8C62C2C           901E8506916029A2C3F8CAD9A26AE2CC652F48800859F5C         923920696EB3AB413786C4185A822282BB3F6900D33A232D470BE198BBF086067B7.           613300C593B74251E2F0799857ADBBE0086583A9DCAA6DC         88F30C737BBD2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE           DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD         188F30C73D4C34C34B8932D7B07BE3B1F7807AC244C16C1DF743           MP_L88         E1887001D414405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A           60DFFB287AD44C2783DF0C1EA5AA5D273D1389C8EA22DCC	···PL/o	
EBBAOBCESCAESBACC4DS2004070797C04093A84BB18DBA           MepLa0         E662E7043867BE250764DA0596D34A582A619B408B505E6211DD6286E93A37F95B1E           M680C0CSF3E7777E3F71E8D75495D59043217FC0E222E16           MPpLa1         27D5E681C222297AD478A079FF12F1A98F744B66335303322EF8880B931FEBF8322F-302944E80BED468A0A516D410B183D863795992DA77DDB           MPpLa2         1500336C05F9E5BF35201906C1C588858E0DAF56130DF5554B9AB21CA15311A90290           624CD63E03F5EDA49DB7A0C32AB5F1CA427A2D5635FDA5         626G0C9393BAEABA9461B781B9C5C3T56CFAAAC2339D8B03A9B0387883D0482A41AC7           MPpL83         686DC9393BAEABA9461B781B9C5C3T56CFAAAC2333DBB03A9B0387883D0482A41AC7           MPL84         D562297561AFF42D3168296C1153E4E39BE7B2EB0348BC704625AA08391235075EE0           DE0A79AB03222FEDBZ721BC56F96EAC2F91CC8FCE64B12         DD0B6768FC01CC0A551F8ACC36907129623E975AB8B3FF58037F1859E2FA8C62C2E           MPL85         D393920696EB3AB413786C41854822282BB33F6900D33A232D470BE198BBF086067B7:           613300C593B7425142F079857ADBCD868583A9DCAA6DC           MPL86         B8E730C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE           DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD           MPL89         E1887001D414405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A           60DFEB287AD44C87833POCT5EFZA11EBC8B1E29FE65F55ACBAC58011465900B958488           A90F6DF614A58431DC8B66C6B9A6F032EEC6B1306ECABCC           MPL80         B8E78A99E0A54E27F51C0726FFZA11EBC8B1E29FE65F55ACBAC58011465900B9	m <sub>Pl</sub> 70	
MPLB0         E662E7043867BE250764DA0556D34A582A619B408B505E6211DD6286E93A37F95B1E A680C0C5F3E777E3F71E8D75495D59043217FC0E222E16           MPLB1         27D5E681C222297AD478A079EF12F1A98F744B66335303322EF8880B931FEBF8322F. 302944E80BED468A0A516D410B183D863795932DA7DDB           MPLB2         5100336C05F9E5BF35201906C1C588858E0DAF56130DF5554B9AB21CA15311A90290 624CD63E03F5EDA49DB7A0C32AB5F1CA427A2D5633FDA5           MPLB3         C696DC993BFAEA9A61B781B9C5C3F5CFAA4C8339D8B03A9B0387883D0482A41AC7 8D6522425959846E561D26A30FF79A205C801A85889736B2           MPLB4         D5662297561AFF42D3168296C11534E439BE7B2EB0348BC704625AA08391235075EE0 DE0A79AB03222FEDBZ7218C56F96EAC2F91CC8FCE64B12           MPLB5         DD0B678BFC01COA6551F8ACC36907129623E975AB8B3FF58037F1859E2FA8C62C2D 901E8506916029A2C3FBCACC36907129623E975ABBB3FF58037F1859E2FA8C62C2D 901E8506916029A2C3FBCACC36907129623E975ABBB3FF58037F1859E2FA8C62C2D 901E8506916029A2C3FBCACC3C907129623E975ABBB50CAA6DC           MPLB6         B3300C593B74251E2P0799857ADBBDC086583A9DCAA6DC           MPLB7         B8EF30C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD           MPLB8         B8E730C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD           MPLB8         B8E730C797D8D2C4EF11244F137D806E556A436628D0115A621C92C34D166A68BCE DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD           MPLB8         B8E730C797A58AA96748141CA84C35987905F998A49D3AD98FF7807AC244C16C1DF743 43C241F25514F5A05934CF9BB3C92E25F5780F8A949D3AD98FF7807AC244C16C1DF743 43C244F1854054495AC44768D83AC454AA9A	111PL/9	
A680COC5F3E777E3F71E8D75495D69043217FC0E222E16   27D5E681C222297AD478A079EF12F1A98F744B66335303322EF8880B931FEBF8322F-   302944E80BED468A0A616D410B183D863795992DA77DDB	m	
MPLB1         27D5E681C222297AD478AO79EF12F1A98F744B66335303322EF8880B931FEBF8322F-302944E80BED468A0A516D410B183D863795992DA77DDB           mPLB2         100336C05F9E5BF35201906C1C5888858EDDAF56130DF5554B9AB21CA15311A90290 624CD63E03F5EDA49DB7A0C32AB5F1CA427A2D5635FDA5           mPLB3         C696DC993BFAEAA9A61B781BSDCC3F5CFAA4C63339D803A9B0387883D0482A41AC7 8D652242599846E561D26A30FF79A205C801A85889736B2           mPLB4         D562297561AFF42D3168296C1153E4E39BET782EB034BBC704625AA08391235075EE0 DE0A79AB03222FEDB27218C56F96EAC2F91CC8FCE64B12 9D1E85606916029A2C3F8CAD9A26AE2CC662F48800859F5C           mPLB6         D0086768FC01CC0A551F8ACC36907129623E975AB8B3FF58037F1859E2FA8C62C2C 9D1E85606916029A2C3F8CAD9A26AE2CC662F48800859F5C           mPLB6         923920696EB3AB413786C41854822282B8383F6900D33A232D470BE198BBF086067B72613300C593B74251E2F079857ADBBCD86583A9DCAA6DC           mPLB7         B8EF30C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE DFA00404DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD           mPLB8         B8E730C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD           mPLB9         B8C28379A58AA96748141CA84C35987905F984A49D3AD9BFF7807AC244C16C1DF743 43C2E1F25514F5A0954CFBB3C99E25EF783136844998AC5           mPLB9         8C2E379A58AA96748141CA84C35987905F984A49D3AD9BFF7807AC244C16C1DF743 43C2E1F25514F5A0954CFBB3C99E25EF783136844998AC5           mPLB9         8FAA391820E0F05CA26E729B4F8A193398CD7BD7BE3E1EB130B28C794C0B4D01C ADE0906F97E80117509733F3A9DC225A13A0A50E08A662           mPLB9         B8FAA395C4550	IIIPL80	
302944E80BED468A0AS16D410B183D863795992DA7DDB		
MPLB2	III <sub>PL81</sub>	
624CD63E03F5EDA49DB7A0C32AB5F1CA427A2D5635FDA5           MPILB3         C696DC993BFAEA9A61B781B9C5C3F5CFAA4C8339D8B03A9B0387883D0482A41AC7           8D6522425959846E561D26A30FF79A205C801A85889736B2           MPILB4         D562297561AFF42D3168296C1153E4E39BE7B2EB0348BC704625AA08391235075EE0 DE0A79AB03222FEDB27218C56F96EAC2F91CC8FCE64B12           MPILB5         DD0B6768FC01CC0A551F8ACC366907129623E975ABB83FF58037F1859E2FA8C62C2C 9D1E8506916029A2C3F8CAD9A26AE2CC652F48800859F5C           MPILB5         923920696EB3AB413786C41854822282B83F6900D33A232D470BE198BBF086067B72           6339006993A251E2F079857ADBBCD86658A93DCAA6DC           B8EF30C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE DFA0040DA8FD6F997B1CD5C2AA1C1B045E64475F0F8DABD           MPILB8         E1887001D414405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A 60DFFB287AD44C8783DF0C1EA5AA5D273D1389C8EA22DCC           MPILB9         8C2E379A58AA996748141CA84C35887905F984A49D3AD9BFF7807AC244C16C1DF743 43C2E1F25514F5A0954CFBB3C92E25EF783136844998AC5           MPILB9         8C2E379A58AA96748141CA84C35897905F984A49D3AD9BFF7807AC244C16C1DF743 43C2E1F25514F5A0954CFBB3C92E25EF7813E9EE95F85AC8AC58011465900B958488 A90F6DF614A58431DC8B6C689A6F032ED6DB1306EC4B4           MPILB9         88F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01C ADE30906F79F980117509733F3A9D0225413A0AE08CA662           MPILB9         B64DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF		
C696DC993BFAEA9A61B781B9C5C3F5CFAA4C8339D8B03A9B0387883D0482A41AC7 8D6522425959846E561D26A30FF79A2D5C801A85889736B2           mPL84         D652297561AF742D3168296C1153E4E39BE7E3E0348BEC704625AA08391235075EE0 DE0A79AB03222FEDB27218C56F96EAC2F91CC8FCE64B12           mPL85         DD0B6768FC01CC0A551F8ACC36907129623E975AB8B3FF58037F1859E2FA8C62C2D 9D1E8506916029A2C3F8CAD9A26AE2CC652F48800859F5C           mPL86         923920696EB3AB413786C41854822282B83F6900D33A232D470BE198BBF086067B72 613300C593B74251E2F079857ADBBCD86583A9DCAA6DC           mPL87         B8EF30C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F078BDABD           mPL88         E1887001D4144405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A 60DFFB287AD44C8783DF0C1EA5AA5D273D1389C8EA22DCC           mPL89         E28379A58AA96748141CA84C35987905F984A449D3AD9BFF7807AC244C16C1DF743 43C2E1525514F5A0954CFBB3C92E25EF783136844998AC5           mPL90         R786A99E0A54E27F51C0726FE7A11EB26B1E29FE65F55AC8AC58011465900B958488 A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4           mPL91         B8F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01C ADE09006FF97E80117509733F3A9DC225413A0AE08CA662           mPL92         BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2FA3B075A819DEAE688EAF8940/653ED7104E7B403D490F0A9030264E1F12B892C75775E61           mPL93         5BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508 155B7C2B3C4C629AF846240C2021ACDE547E5A1F666B8           mPL94         DA669880995B06712011772BABFF141D5854A245E211879EF3038A7C84170DADDBD368 455F2465310E67E749	$m_{PL82}$	
BD6522425959846E561D26A30FF79A205C801A85889736B2           mPIL54         D562297561AFF42D3168296C1153E4E39BE7E2E0348BC704625AA08391235075EE0           DE0A79AB03222FEDB27218C56F96EAC2P91CC8FCE6H212           mPIL55         DD0B6768FC01CC0A551F8ACC36907129623E975AB8B3FF58037F1859E2FA8C62C2D           9D1E8506916029A2C3F8CAD9A26AE2CC652F48800859F5C         923920696EB3AB413786C41854822282B8B3F6900D33A232D470BE198BBF086067B72           613300C593B74251E2F079857ADBBCD86883A9DCAA6DC         B8EF30C797D8D2C4EF11244F137D806E556A43662GD0115A621C92C34D166A68BCE           mPIL87         B8EF30C797D8D2C4EF112244F137D806E556A43662GD0115A621C92C34D166A68BCE           DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD           mPIL88         E1887001D414405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A           60DFFB287AD44C8783DF0C1EA5AA5D273D1388C8EA22DCC         8C2E379A58AA96748141CA84C35987905F984A49D3AD9BFF807AC244C16C1DF743           43C2E1F25614F5A0954CFBB3C92E25EF783136844998AC5         78F8A99E0A54E27F51C0726FE7A11EB26B1E29FE65F55AC8AC58011465900B958488           MPL90         78F8A99E0A54E27F51C0726FE7A11EB26B1E29FE65F55AC8AC58011465900B958488           A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4           MPL91         8BF73318F82D20F05CA26E729B4F8A1933962D7B07B231EB130B28C794C0B4D01C           ADE09006FF97E80117509733F3A9DC225413A0AE08CA662           MPL92         BE4DFCCAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEA688EAF8940/653ED7104F3B403D490F0A9303264E1F12B8922C75775E61 <td></td> <td></td>		
MPLB4         D562297561AFF42D3168296C1153E4E39BE7B2EB0348BC704625AA08391235075EE0 DE0A79AB03222FEDB27218C56F96EAC2F91CC8FCE64B12           MPLB5         DD0B6768FC01CC0A551F8ACC36907129623E975ABBB3FF58037F1859E2FA8C62C2D 9D1E8506916029A2C3F8CAD9A26AE2CC652F48800859F5C           MPLB6         923920696EB3AB413786C41854822282BB3F6900D33A232D470BE198BBF086067B72613300C593B74251E2F079857ADBBCD86583A9DCAA6DC           MPLB7         B8EF30C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD           MPLB8         E1887001D4144405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A 60DFFB287AD44C8783DF0C1EASAA5D273D1389C8EA22DCC           MPLB9         E1887001D4144405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A 60DFFB287AD44C8783DF0C1EASAA5D273D1389C8EA22DCC           MPLB9         8C2E379A58AA96748141CA84C35987905F984A49D3AD9BFF7807AC244C16C1DF743 43C2E1F25514F5A0954CFBB3C992E25EF783136844998AC5           MPLB9         78F8A99E0A54CFBB3C992E25EF783136844998AC5           MPLB9         88F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01C ADE09006FF97E80117509733F3A9DC225413A0AE08CA662           MPLB9         88F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01C ADE09006FF97E80117509733F3A9DC225413A0AE08CA662           MPLB9         58A4B79FC4550234D8922963BF3357485E3C8745A5DB90D3E2E454B30FF61112F508 155B7C2B3C44C628AF846240C2021ACDE547E5A41F666B8           MPLB9         58A4B79FC4550234D8922963BF3637485E3C8745A5DB90D3E2E454B30FF61112F508 155B7C2B3C446450E24644545C2176EF0D4F450B765C28359FB8A32137D043D0E5 7136E735649	$m_{PL83}$	
DE0A79AB03222FEDB27218C56F96EAC2F91CC8FCE64B12           MPL85         DD0B6768FC01CC0A551F8ACC36907129623E975AB8B3FF58037F1859E2FA8C62C2D           9D1E8506916029A2C3F8CAD9A26AE2CC652F48800859F5C           mPL86         923920696EB3AB413786C41854822282BB83F6900D33A232D470BE198BBF086067B77           613300C593B74251E2F079857ADBBCD86583A9DCAA6DC         B8EF30C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE           MPL87         BA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD           MPL88         E1887001D4144405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A           60DFFB287AD44C8783DF0C1EASAA6D273D1389C8EA22DCC           MPL89         8C2E379A58AA96748141CA84C35987905F984A49D3AD9BFF7807AC244C16C1DF743           43C2E1F25514F5A0954CFBB3C92E25EF783136844998AC5           MPL90         78F8A99E0A54E27F51C0726FE7A11EB26B1E29FE65F55AC8AC58011465900B958488           A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4           MPL91         A8F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7B23E1EB130B28C794C0B4D01C           ADE09006FF97E80117509733F33A9DC225413A0AE08CA662           MPL93         BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940/653ED7104E7B403D490F0A9030264E1F12B8922C75775E61           MPL93         558B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8           MPL94         00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B           B73C33F83F37AF1072743B249ADA2E09598B1EB23F1180A7		
MPL85         DD0B6768FC01CC0A551F8ACC36907129623E975AB8B3FF58037F1859E2FA8C62C2E           9D1E8506916029A2C3F8CAD9A26AE2CC652F48800859F5C           923920696EB3AB413786C41854822282BB83F6900D33A232D470BE198BBF086067B72           613300C593B74251E2F079857ADBBCD86583A9DCAA6DC           MPL87         B8EF30C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE           DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD           MPL88         E1887001D414405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A           60DFFB287AD44C8783DF0C1EA5AA5D273D1389C8EA22DCC           MPL89         8C2E379A58AA96748141CA84C35987905F984A44D3AD9BFF7807AC244C16C1DF743           43C2E1F25514F5A0954CFBB3C92E25EF783136844998AC5           MPL90         78F8A99E0A54E27F51C0726FE7A11EB26B1E29FE65F55AC8AC58011465900B958488           A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4           MPL91         A85F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01C           MC9006FF97E80117509733F3A9DC225413A0AE08CA662           MPL93         BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940/653ED7104E7B403D490F0A9030264E1F12B8922C75775E61           MPL93         5BA4B79FC4550234D8922963BF3537485E3C8745A5DB990D3E2E454B30FF61112F508           MPL94         00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B           MPL95         7A0CC9F21BD69CF3023E944454SC2176EF0D4F450B765C28359FB8A32137D043D0E5           713E67B37661	$m_{PL84}$	
9D1E8506916029A2C3F8CAD9A26AE2CC652F48800859F5C  mPL86 923920696EB3ABA13786C41854822282BB83F6900D33A232D470BE198BBF086067B72613300C593B74251E2F079857ADBBCD8583A9DCAA6DC  mPL87 B8EF30C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD  mPL88 E1887001D414405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A 60DFFB287AD44C8783DF0C1EA5AA5D273D1389C8EA22DCC  mPL89 8C2E379A58AA96748141CA84C35987905F984A49D3AD9BFF7807AC244C16C1DF743 43C2E1F25514F5A0954CFBB3C92E25EF783136844998AC5  mPL90 78F8A99E0A54E27F51C0726FE7A11EB26B1E29FE65F55AC8AC58011465900B958488 A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4  mPL91 88F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01C ADE09006FF97E80117509733F3A9DC225413A0AE08CA662  mPL92 BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940/ 653ED7104E7B403D490F0A9030264E1F12B8922C75775E61  mPL93 3BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508 155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8  mPL94 00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7  mPL95 7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5 713E67B3F61320985D2C6106605081F87D2296321468A2F  mPL99 DA669880995B0671201172BABFF1411D5854A245E211879EF3038A7C84170DADBD368 455F24653161E7886E15B253F93E33A3C568EFB17CDEB1A  mPL99 T3385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A  mPL99 T49294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1 627059D41A23D3961726DE6FEB10E5D209CC4505B209812  mPL99 T492960805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D 4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4  mPL100 T49D4012DB80F886456C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B30778A2C3F1E12C  mPL101 T6CEFCC49A1384FFA12COCC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C		
mPL86         923920696EB3AB413786C41854822282BB83F6900D33A232D470BE198BBF086067B72613300C593B74251E2F079857ADBBCD86583A9DCAA6DC           mPL87         B8EF30C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD           mPL88         E1887001D414405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A 60DFFB287AD44C8783DF0C1EA5AA5D273D1389C8EA22DCC           mPL89         8C2E379A58AA96748141CA84C35987905F984A49D3AD9BFF7807AC244C16C1DF743 43C2E1F25514F5A0954CFBB3C92E25EF78313684499B3AC5           78F8A99E0A54E27F51C0726FE7A11EB26B1E29FE65F55AC8AC58011465900B958488 A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4           mPL91         88F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01C ADE09006F97E80117509733F3A9DC225413A0AE08CA662           mPL92         BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940/653ED7104E7B403D490F0A9030264E1F12B8922C75775E61           mPL93         5BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508 155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8           mPL94         00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B B73C3783F61320985D2C61066050B1F87D2296321468A2F           mPL95         7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5 713E67B3F61320985D2C61066050B1F87D2296321468A2F           mPL98         DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368 455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A           mPL99         F4294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1 627059D4	$m_{PL85}$	
613300C593B74251E2F079857ADBBCD86583A9DCAA6DC  mPL87  B8FF30C797D8D2C4EF11244F137D80E556A436626D0115A621C92C34D166A68BCE DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD  mPL88  E1887001D414405ED6419E9EF1D1D346D924ED57ADF04B31B7948099976B2D1501A 60DFFB287AD44C8783DF0C1EA5AA5D273D1389C8EA22DCC  mPL89  8C2E379A58AA96748141CA84C35987905F984A49D3AD9BFF7807AC244C16C1DF743 43C2E1F25514F5A0954CFBB3C92E25EF7831368444998AC5  MPL90  78F8A99E0A54E27F51C0726FE7A11EB26B1E29FE66F55AC8AC58011465900B958488 A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4  mPL91  88F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01C ADE09006FF97E80117509733F3A9DC225413A0AE08CA662  mPL92  BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940/ 653ED7104E7B403D490F0A9030264E1F12B8922C75775E61  mPL93  5BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508 155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8  mPL94  mPL95  TA0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5 713E67B3F61320985D2C6106605081F87D2296321468A2F  mPL99  DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368 455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A  mPL99  T3385DF70141414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A  mPL99  T3385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A  mPL99  F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D A49A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4  mPL100  MPL100  FCAEEFCC49A13B4FF4412C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AAA2C3F1E12C		9D1E8506916029A2C3F8CAD9A26AE2CC652F48800859F5C
MPL87         B8EF30C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD           MPL88         E1887001D414405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A 60DFFB287AD44C8783DF0C1EA5AA5D273D1389C8EA22DCC           MPL89         8C2E379A58AA96748141CA84C35987905F984AA9D3AD9BFF7807AC244C16C1DF743 43C2E1F25514F5A0954CFBB3C92E25EF783136844998AC5           MPL90         78F8A99E0A54E27F51C0726FE7A11EB26B1E29FE65F55AC8AC58011465900B958488 A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4           MPL91         ABF7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01C ADE09006FF97E80117509733F3A9DC225413A0AE08CA662           MPL92         BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940/653ED7104E7B403D490F0A9030264E1F12B8922C75775E61           MPL93         5BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508 155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8           MPL94         00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7           MPL95         7A0CC9F21BD69CF3023E944545C2176EF00H4450B765C28359FB8A32137D043D0E5 713E67B3F61320985D2C6106605081F87D2296321468A2F           MPL96         DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368 455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A           MPL99         73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A           MPL99         F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D 4A9A5931	$m_{PL86}$	923920696EB3AB413786C41854822282BB83F6900D33A232D470BE198BBF086067B72
DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD  mPL88 E1887001D414405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A 60DFFB287AD44C8783DF0C1EA5AA5D273D1389C8EA22DCC  8C2E379A58AA96748141CA84C35987905F984A49D3AD9BFF7807AC244C16C1DF743 43C2E1F25514F5A0954CFBB3C92E25EF783136844998AC5  mPL90 78F8A99E0A54E27F51C0726FE7A11EB26B1E29FE65F55AC8AC58011465900B958488 A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4  mPL91 88F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01C ADE09006FF97E80117509733F3A9DC225413A0AE08CA662  mPL92 BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940/ 653ED7104E7B403D490F0A9030264E1F12B8922C75775E61  mPL93 5BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508 155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8  mPL94 00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7  mPL95 7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5 713E67B3F61320985D2C6106605081F87D2296321468A2F  mPL99 DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368 455F246633161E7886E15B253F93E3A3C568EFB17CDEB1A  mPL99 T3385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A  mPL99 F4492160805F258CE592DF4D1200566F81D1733458D78EA3ABED79A14AF88170DB1D A49A5931D2B80C58C27FE17D806E33E6A66CDAAD09F118D4  MPL100 F449EFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C		613300C593B74251E2F079857ADBBCD86583A9DCAA6DC
DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD  mPL88	m <sub>PL87</sub>	B8EF30C797D8D2C4EF11244F137D806E556A436626D0115A621C92C34D166A68BCE
60DFFB287AD44C8783DF0C1EA5AA5D273D1389C8EA22DCC  mPL89		DFA0040DA8FD6F987B1CD5C2AA1C1B045E64475F0F8DABD
60DFFB287AD44C8783DF0C1EA5AA5D273D1389C8EA22DCC           mPL89         8C2E379A58AA96748141CA84C35987905F984A49D3AD9BFF7807AC244C16C1DF743           43C2E1F25514F5A0954CFBB3C92E25EF783136844998AC5         78F8A99E0A54E27F51C0726FE7A11EB26B1E29FE65F55AC8AC58011465900B958488           A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4         88F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01CADE09006FF97E80117509733F3A9DC225413A0AE08CA662           MPL92         BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940/653ED7104E7B403D490F0A9030264E1F12B8922C75775E61           MPL93         5BA4B79FC4550234D8922963BF3537485E33C8745A5DB90D3E2E454B30FF61112F508           MPL94         00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B           B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7           MPL95         7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5           MPL96         DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368           MPL97         4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1           627059D41A23D3961726DE6FEB10E5D209CC4505B209812           MPL98         73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0           C133F878972230721918AA425501B920B204FECEOC7F8A           MPL99         F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D           44D562D9012D8B07B8F445966467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C           39CE	M <sub>PI 88</sub>	E1887001D414405ED6419E9EE1D1D346D924ED57ADF04B31B7948099976B2D1501A
43C2E1F25514F5A0954CFBB3C92E25EF783136844998AC5           MPL90         78F8A99E0A54E27F51C0726FE7A11EB26B1E29FE65F55AC8AC58011465900B958488           A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4           MPL91         88F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01C           ADE09906FF97E80117509733F3A9DC225413A0AE08CA662         BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940/653ED7104E7B403D490F0A9030264E1F12B8922C75775E61           MPL93         5BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508           155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8           MPL94         00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B           B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7         7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5           MPL95         7A669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368           455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A           MPL97         4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1           627059D41A23D3961726DE6FEB10E5D209CC4505B209812         73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0           C133F878972230721918AA425501B920B204FECEOC7F8A         4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4           MPL99         F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D           4A9A5931D2B80758C592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D	. =	60DFFB287AD44C8783DF0C1EA5AA5D273D1389C8EA22DCC
43C2E1F25514F5A0954CFBB3C92E25EF783136844998AC5           MPL90         78F8A99E0A54E27F51C0726FE7A11EB26B1E29FE65F55AC8AC58011465900B958488           A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4           MPL91         88F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01C           ADE09906FF97E80117509733F3A9DC225413A0AE08CA662         BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940/653ED7104E7B403D490F0A9030264E1F12B8922C75775E61           MPL93         5BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508           155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8           MPL94         00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B           B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7         7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5           MPL95         7A669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368           455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A           MPL97         4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1           627059D41A23D3961726DE6FEB10E5D209CC4505B209812         73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0           C133F878972230721918AA425501B920B204FECEOC7F8A         4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4           MPL99         F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D           4A9A5931D2B80758C592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D	M <sub>PI 80</sub>	8C2E379A58AA96748141CA84C35987905F984A49D3AD9BFF7807AC244C16C1DF743
MPL90         78F8A99E0A54E27F51C0726FE7A11EB26B1E29FE65F55AC8AC58011465900B958488           A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4           MPL91         88F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01CADE09006FF97E80117509733F3A9DC225413A0AE08CA662           MPL92         BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940A653ED7104E7B403D490F0A9030264E1F12B8922C75775E61           MPL93         5BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F50815B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8           MPL94         00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6BB73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7           MPL95         7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5713E67B3F61320985D2C6106605081F87D2296321468A2F           MPL96         DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD36845F24653161E7886E15B253F93E3A3C568EFB17CDEB1A           MPL97         4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1627059D41A23D3961726DE6FEB10E5D209CC4505B209812           MPL98         73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0C133F878972230721918AA425501B920B204FECE0C7F8A           MPL99         F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D44A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D44A9A5931D2B80C58C259E07F8AF4596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C39CEF576A025491183017FA09931D070B307B86524B03FF           MPL100         FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F	1 200	43C2E1F25514F5A0954CFBB3C92E25EF783136844998AC5
A90F6DF614A58431DC8B6C6B9A6F032EE0E0B1306EC4B4  MPL91 88F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01C ADE09006FF97E80117509733F3A9DC225413A0AE08CA662  MPL92 BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940/ 653ED7104E7B403D490F0A9030264E1F12B8922C75775E61  MPL93 SBA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508 155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8  MPL94 00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7  MPL95 7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5 713E67B3F61320985D2C6106605081F87D2296321468A2F  MPL96 DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368 455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A  MPL97 4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1 627059D41A23D3961726DE6FEB10E5D209CC4505B209812  MPL98 73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A  MPL99 F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D 4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4  MPL100 44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF  MPL101 FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	M <sub>PI an</sub>	
mpl.91         88F7A31B7B20E0F05CA26E729B4F8A1933962D7BD7BE3E1EB130B28C794C0B4D01CADE09006FF97E80117509733F3A9DC225413A0AE08CA662           mpl.92         BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940A653ED7104E7B403D490F0A9030264E1F12B8922C75775E61           mpl.93         5BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508 155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8           mpl.94         00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7           mpl.95         7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5 713E67B3F61320985D2C6106605081F87D2296321468A2F           mpl.96         DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368 455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A           mpl.97         4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1 627059D41A23D3961726DE6FEB10E5D209CC4505B209912           mpl.98         73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A           mpl.99         F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D 4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4           mpl.100         44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF           mpl.101         FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	1 250	
ADE09006FF97E80117509733F3A9DC225413A0AE08CA662  m <sub>PL92</sub> BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940A 653ED7104E7B403D490F0A9030264E1F12B8922C75775E61  m <sub>PL93</sub> 5BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508 155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8  m <sub>PL94</sub> 00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7  m <sub>PL95</sub> 7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5 713E67B3F61320985D2C6106605081F87D2296321468A2F  m <sub>PL96</sub> DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368 455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A 4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1 627059D41A23D3961726DE6FEB10E5D209CC4505B209812  m <sub>PL98</sub> 73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A  m <sub>PL99</sub> F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D 4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4  m <sub>PL100</sub> 44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF  m <sub>PL101</sub> FCAEEFCC49A13B4FFA12COCC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	M <sub>DL04</sub>	
MPL92         BE4DFCEAC18905AC8D5DA27A794F88A4D3058D2EFA3B075A819DEAE688EAF8940A653ED7104E7B403D490F0A9030264E1F12B8922C75775E61           MPL93         5BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508 155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8           MPL94         00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7           MPL95         7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5 713E67B3F61320985D2C6106605081F87D2296321468A2F           MPL96         DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368 455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A           MPL97         4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1 627059D41A23D3961726DE6FEB10E5D209CC4505B209812           MPL98         73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A           MPL99         F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D 4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4           MPL100         44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF           MPL101         FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	· · · PL91	
653ED7104E7B403D490F0A9030264E1F12B8922C75775E61  m <sub>PL93</sub> 5BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508 155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8  m <sub>PL94</sub> 00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7  m <sub>PL95</sub> 7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5 713E67B3F61320985D2C6106605081F87D2296321468A2F  m <sub>PL96</sub> DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368 455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A  m <sub>PL97</sub> 4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1 627059D41A23D3961726DE6FEB10E5D209CC4505B209812  m <sub>PL98</sub> 73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A  m <sub>PL99</sub> F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D 4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4  m <sub>PL100</sub> 44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF  FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	m <sub>Pl as</sub>	
MPL93         5BA4B79FC4550234D8922963BF3537485E3C8745A5DB90D3E2E454B30FF61112F508           155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8           MPL94         00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B           B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7           MPL95         7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5           713E67B3F61320985D2C6106605081F87D2296321468A2F           MPL96         DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368           455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A           MPL97         4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1           627059D41A23D3961726DE6FEB10E5D209CC4505B209812         73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0           C133F878972230721918AA425501B920B204FECE0C7F8A         F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D           MPL99         F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D           4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4         44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C           39CEF576A025491183017FA09931D070B307B86524B03FF         FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC           61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	TTPL92	
155B7C2B3C4C628AF846240C2021ACDE547E5A41F666B8  m <sub>PL94</sub> 00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7  m <sub>PL95</sub> 7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5 713E67B3F61320985D2C6106605081F87D2296321468A2F  m <sub>PL96</sub> DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368 455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A  m <sub>PL97</sub> 4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1 627059D41A23D3961726DE6FEB10E5D209CC4505B209812  m <sub>PL98</sub> 73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A  m <sub>PL99</sub> F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D 4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4  m <sub>PL100</sub> 44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF  m <sub>PL101</sub> FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	m	
mpL94         00556D35649F7610AB24A43C4F16D6AC0571FD126F11880C5CD72100D730E4E4D6B           B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7           mpL95         7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5           713E67B3F61320985D2C6106605081F87D2296321468A2F           mpL96         DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368           455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A           mpL97         4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1           627059D41A23D3961726DE6FEB10E5D209CC4505B209812           mpL98         73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0           C133F878972230721918AA425501B920B204FECE0C7F8A           mpL99         F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D           4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4           mpL100         44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C           39CEF576A025491183017FA09931D070B307B86524B03FF         FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC           61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	IIIPL93	
B73C33F837FAF1072743B249ADA2E09598B1EB23F1180A7  m <sub>PL95</sub> 7A0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5	<b>m</b>	
TA0CC9F21BD69CF3023E944545C2176EF0D4F450B765C28359FB8A32137D043D0E5 713E67B3F61320985D2C6106605081F87D2296321468A2F  DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368 455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A  MPL97 4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1 627059D41A23D3961726DE6FEB10E5D209CC4505B209812  T3385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A  MPL99 F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D 4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4  MPL100 44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF  MPL101 FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	III <sub>PL94</sub>	
713E67B3F61320985D2C6106605081F87D2296321468A2F  m <sub>PL96</sub> DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368		
m <sub>PL96</sub> DA669880995B0671201172BABFF141D5854A245E211879EF3038A7C84170DADBD368 455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A           m <sub>PL97</sub> 4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1 627059D41A23D3961726DE6FEB10E5D209CC4505B209812           m <sub>PL98</sub> 73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A           m <sub>PL99</sub> F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D 4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4           m <sub>PL100</sub> 44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF           m <sub>PL101</sub> FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	$m_{PL95}$	
455F24653161E7886E15B253F93E3A3C568EFB17CDEB1A  M <sub>PL97</sub> 4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1 627059D41A23D3961726DE6FEB10E5D209CC4505B209812  M <sub>PL98</sub> 73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A  M <sub>PL99</sub> F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D 4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4  M <sub>PL100</sub> 44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF  M <sub>PL101</sub> FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C		
MPL97       4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1         627059D41A23D3961726DE6FEB10E5D209CC4505B209812         MPL98       73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0         C133F878972230721918AA425501B920B204FECE0C7F8A         MPL99       F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D         4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4         MPL100       44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C         39CEF576A025491183017FA09931D070B307B86524B03FF         MPL101       FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC         61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	$m_{PL96}$	
627059D41A23D3961726DE6FEB10E5D209CC4505B209812  m <sub>PL98</sub> 73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0		
T3385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0 C133F878972230721918AA425501B920B204FECE0C7F8A MPL199 F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D 4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4 MPL100 44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF MPL101 FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	$m_{PL97}$	4E294E53D1661C1F6F748302A7723DA951C00FDB8BEBBF67A68710BA0F1A255DFB1
C133F878972230721918AA425501B920B204FECE0C7F8A  m <sub>PL99</sub> F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D		627059D41A23D3961726DE6FEB10E5D209CC4505B209812
C133F878972230721918AA425501B920B204FECE0C7F8A  m <sub>PL99</sub> F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D 4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4  m <sub>PL100</sub> 44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF  m <sub>PL101</sub> FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	$m_{PL98}$	73385DF701414E144768A67EF72924B1653479E962FB1554B7E54BC5284D9B3E41C0
4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4  M <sub>PL100</sub> 44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF  M <sub>PL101</sub> FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C		C133F878972230721918AA425501B920B204FECE0C7F8A
4A9A5931D2B80C58C27FE17D806E3E6A66CDAAD09F118D4  M <sub>PL100</sub> 44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF  M <sub>PL101</sub> FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	m <sub>PL99</sub>	F4492160805F258CE592DF4D1200566F81D173458D78EA3ABED79A14AF88170DB1D
m <sub>PL100</sub> 44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C 39CEF576A025491183017FA09931D070B307B86524B03FF m <sub>PL101</sub> FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	. 200	
39CEF576A025491183017FA09931D070B307B86524B03FF  m <sub>PL101</sub> FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	M <sub>PI 100</sub>	44D562D9012D8B07B8F44596467C11A163982BB7EAEAC184078B6B8CE46B5D7E17C
m <sub>PL101</sub> FCAEEFCC49A13B4FFA12C0CC6A2B90CF4F57D78B1E98294B04675C2F0991661FDC 61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	I-L100	
61A452A247F8C29E0284AA21026F368307375AA2C3F1E12C	M <sub>DL404</sub>	
0.4000000000000000000000000000000000000	PL101	
THEILUZ OTODO TODO ADO ADO ADO ADO ADO ADO ADO ADO ADO	m <sub>E:</sub>	
	11102	0-100D1 0010D0/\D00C11 0/\000D030C11\0\C01 \00\0020U10123231 \D3400D22FD0C

	147E9190D9929A5DFFE44715FA47D62F04CFC9B1C201414
m <sub>PL103</sub>	C10AF383DC708E257E15A8AB337BCE684A2F4AC7A22DC2C25C277F8E8D0858E793
1 2103	17CDDD9AA2EA6CBE604D24AC0945026103E7B4126FD361A4
m <sub>PL104</sub>	A5C60A181148D9A931B2DDDB9D169648BA54F366B4EFAE88F6861909EE0F07C037E
1 2101	E349D0EC59A823286E366CA3943589EEA7F828C3728085F
m <sub>PL105</sub>	96136AEBD5E28462B0421DF292BA899FFA660D80EA01620D2C7490E5347127884AA3
1 2100	C3D1FF44BCEEF6C29EC589CDEF200C5742C5964F8B2B52
m <sub>PL106</sub>	40F63C04ACAD986255D1E16B769A6D4C11A1D075E804BDC0AC61923E9A67F5D7417
111 [100	756328072455F6E22B1C64E06F367D1B0808295C2D90E22
m <sub>PL107</sub>	F4B82D413578C4888C5F002CF6D0E03778134A860436551FD57537E4CED334B3C9C
. 2.0.	EBACE615238271717AA762448B86FA53D2074BCE35658A7
m <sub>PL108</sub>	BCCC92D72C920E685530591FC351743D1E23DE044BF81D32650406113E23ECC757F
111 [100	DE4E386B6E2E7195EE4969717A7BD0812AC312B33A54308
m <sub>PL109</sub>	6ED59DE0D44370A861CE2B42CF5E578E764A682AB5777905EE027D7160490EDC6C2
	8989B23805AA697FCD215CB401BC5E4D430624C01B16192
m <sub>PL110</sub>	DE80C0E273B92CC3C5034F7A20DB3914643C430B425C8B9249EAF73ACE8C3BCF17
THE LITTO	957242CF534D87A67D4DC0252275262E737F4095450CFA14
m <sub>PL111</sub>	9505C4FEF2A397D5059F4729D013292A8321FFFA929ACB0A210D0A13E13061227C44
···FLIII	A68FBD8CE6B66CE3D783363CD039AB35EE52603E09B758
m <sub>PL112</sub>	E8BE90D7F954B14D8002A4CAC20765ABEED80634498C836D79B0F9338DBC17B28F0
	5CF4E79136779E1C55AA30B6215F890882887B3B53C23E2
m <sub>PL113</sub>	9F4B622C1358AE5468DC31E4B2CA320E5E20458C1DE5405BF4F9AD7D45A5BCAA39
[113	EC0626FFFC698C16A009CCCB7A18A64E85E70BA71731BA24
m <sub>PL114</sub>	B91B2624843CF48299AFC2B1442570B41F28F578530D1E322E0B54282372131C71AC
···FL114	B924E70768A243EEC3200E7A5EBFA77111D9FB07FEA8AE
m <sub>PL115</sub>	965F42DDA3A4650FE2F5103932B68F166FA424B9F0F7045311D962C2A9F66B9BC6C6
1 2110	6FB480F9800354E0C54A72251071422CF1DFC44F94C00C
m <sub>PL116</sub>	08ADCE48699FC30FA0788073BDAADB9177BBB4C1CED41F93085218364B8BAD8488
. 20	561EF0FE1B0DDAA403C602494CB35697D62AA0A2B93A64CF
m <sub>PL117</sub>	9A313BED80B1220D77C8ADA4B2E0B3D284A5120A94B741380923C78D3AD32BC3E7
	1EC6EEA520E9D447D8727697598BB987F17506F482003ABD
m <sub>PL118</sub>	24C9AD4C14EFEC002A3473FCAB04E492F2E269161A2960BA8AF09FD710B444A40C4
	E8B138418E62301E91FBA97AFDC58759A76D00F676736C7
m <sub>PL119</sub>	6514C7733711CE4942CD2123AB37186EB7FECB7E78ABB28744864942FCF4C0F81005
	4AF55B1042EB53064F0857C61D85B2CF0D2DC5826AF22F
m <sub>PL120</sub>	B2C80CDC83E48C36BC6FDAB8661208EAD392F3A0571BE41DFAD765E744932ADEA5
	0061E66C05498A5381B2A1F1B446587089DC4E4A2DF03D82
m <sub>PL121</sub>	
PL121	639368BA75CC709A3D9F28EDA237E32C2017A9BF1E382045B9426AEE0A4049DCB4E
PL121	639368BA75CC709A3D9F28EDA237E32C2017A9BF1E382045B9426AEE0A4049DCB4E 1D7EBE4647B855212824557497CFA039885A3BA42F98F63
m <sub>PL122</sub>	1D7EBE4647B855212824557497CFA039885A3BA42F98F63
m <sub>PL122</sub>	1D7EBE4647B855212824557497CFA039885A3BA42F98F63 6A70DDC17D0C8024B1C853F0C1948561EF32510151BE0C63BCA9171F20217891D10
	1D7EBE4647B855212824557497CFA039885A3BA42F98F63 6A70DDC17D0C8024B1C853F0C1948561EF32510151BE0C63BCA9171F20217891D10 21EE72586CAFF557F8973336913A94A2A699B8740B054B8
m <sub>PL122</sub>	1D7EBE4647B855212824557497CFA039885A3BA42F98F63 6A70DDC17D0C8024B1C853F0C1948561EF32510151BE0C63BCA9171F20217891D10 21EE72586CAFF557F8973336913A94A2A699B8740B054B8 2E32E3A35CCD001172CE310B63B4E406126045A0FA3795BE3E3D9B56F72405FC94F
m <sub>PL122</sub>	1D7EBE4647B855212824557497CFA039885A3BA42F98F63 6A70DDC17D0C8024B1C853F0C1948561EF32510151BE0C63BCA9171F20217891D10 21EE72586CAFF557F8973336913A94A2A699B8740B054B8 2E32E3A35CCD001172CE310B63B4E406126045A0FA3795BE3E3D9B56F72405FC94F D89946818BAECD24A61BABBBE2D23052AB01EF73CA0CF4A
m <sub>PL122</sub>	1D7EBE4647B855212824557497CFA039885A3BA42F98F63 6A70DDC17D0C8024B1C853F0C1948561EF32510151BE0C63BCA9171F20217891D10 21EE72586CAFF557F8973336913A94A2A699B8740B054B8 2E32E3A35CCD001172CE310B63B4E406126045A0FA3795BE3E3D9B56F72405FC94F D89946818BAECD24A61BABBBE2D23052AB01EF73CA0CF4A 829395C35205A480AC1351C25E234BF52D384A3DE1C5138A650A6F82F739757D812D
m <sub>PL123</sub> m <sub>PL124</sub>	1D7EBE4647B855212824557497CFA039885A3BA42F98F63 6A70DDC17D0C8024B1C853F0C1948561EF32510151BE0C63BCA9171F20217891D10 21EE72586CAFF557F8973336913A94A2A699B8740B054B8 2E32E3A35CCD001172CE310B63B4E406126045A0FA3795BE3E3D9B56F72405FC94F D89946818BAECD24A61BABBBE2D23052AB01EF73CA0CF4A 829395C35205A480AC1351C25E234BF52D384A3DE1C5138A650A6F82F739757D812D 9C38231AB9FD81AA0648B11F6F6113F9312C57624FC746
m <sub>PL122</sub> m <sub>PL123</sub> m <sub>PL124</sub> m <sub>PL125</sub>	1D7EBE4647B855212824557497CFA039885A3BA42F98F63 6A70DDC17D0C8024B1C853F0C1948561EF32510151BE0C63BCA9171F20217891D10 21EE72586CAFF557F8973336913A94A2A699B8740B054B8 2E32E3A35CCD001172CE310B63B4E406126045A0FA3795BE3E3D9B56F72405FC94F D89946818BAECD24A61BABBBE2D23052AB01EF73CA0CF4A 829395C35205A480AC1351C25E234BF52D384A3DE1C5138A650A6F82F739757D812D 9C38231AB9FD81AA0648B11F6F6113F9312C57624FC746 D98FFE19C0AAAAB0571A9075ECDFD3E7373F5255DC669116A8C6913F0123E598F93
m <sub>PL123</sub> m <sub>PL124</sub>	1D7EBE4647B855212824557497CFA039885A3BA42F98F63 6A70DDC17D0C8024B1C853F0C1948561EF32510151BE0C63BCA9171F20217891D10 21EE72586CAFF557F8973336913A94A2A699B8740B054B8 2E32E3A35CCD001172CE310B63B4E406126045A0FA3795BE3E3D9B56F72405FC94F D89946818BAECD24A61BABBBE2D23052AB01EF73CA0CF4A 829395C35205A480AC1351C25E234BF52D384A3DE1C5138A650A6F82F739757D812D 9C38231AB9FD81AA0648B11F6F6113F9312C57624FC746 D98FFE19C0AAAAB0571A9075ECDFD3E7373F5255DC669116A8C6913F0123E598F93 0934C5F6A601C37C529C371A0C391B59AC5A9E286D04011
m <sub>PL122</sub> m <sub>PL123</sub> m <sub>PL124</sub> m <sub>PL125</sub>	1D7EBE4647B855212824557497CFA039885A3BA42F98F63 6A70DDC17D0C8024B1C853F0C1948561EF32510151BE0C63BCA9171F20217891D10 21EE72586CAFF557F8973336913A94A2A699B8740B054B8 2E32E3A35CCD001172CE310B63B4E406126045A0FA3795BE3E3D9B56F72405FC94F D89946818BAECD24A61BABBBE2D23052AB01EF73CA0CF4A 829395C35205A480AC1351C25E234BF52D384A3DE1C5138A650A6F82F739757D812D 9C38231AB9FD81AA0648B11F6F6113F9312C57624FC746 D98FFE19C0AAAAB0571A9075ECDFD3E7373755255DC669116A8C6913F0123E598F93 0934C5F6A601C37C529C371A0C391B59AC5A9E286D04011 C1A108192BCE96C2430A63C189BB33856BE6B8B524703FCB205DAEF37EF544CD43

# A.2 Basic Midamble Codes for Burst Type 2

In the case of burst type 2 (see section 5.2.2) the midamble has a length of Lm=256, which is corresponding to:

K'=3; W=64; P=192.

Depending on the possible delay spread cells are configured to use midambles which are generated from the Basic Midamble Codes (see Table A-2)

- for all k=1,2,...,K; K=2K' or
- for k=1,2,...,K', only.

The cell configuration is broadcast on BCH.

The mapping of these Basic Midamble Codes to Cell Parameters is shown in TS25.223.

Table A-2: Basic Midamble Codes  $\,m_{_{\mathrm{P}}}\,$  according to equation (5) from section 6.2.3 for case of burst type 2

mps0         5D253744435A24EF0ECC21F43AA5B8144FBDB348C746080C           mps1         9D7174187201B5CE0136B7A6D85D39A9DD8D4B00E23835E4           mps2         AE90B477C294E55D28467476C6011029CDE29B7325DF0683           mps3         BC8A44125F823E51E568641EC12A6C68EAFDFA2350E3233C           mps3         B98B7317B830D207C9BC7B521D5715680824DC08347B2943           mps3         466C7482C8827655BC13F479C7C1417290679A9841297C4A           mps3         466C7482C8827655BC13F479C7C1417290679A9841297C4A           mps4         AC0734C27C7DC1B818A8492744290DFE866B0EBA62B0B56E           mps7         0A92106325B15A8C15FC3764724CE67A5056D50A77F9360E           mps8         AE69F62E23035083E6094B89493D33E06FDB6532D473A280           mps8         AE69F62E23035083E6094B89493D33E06FDB6532D473A280           mps10         66182885E2D28360D2FEAB842C65304FFC956CE8DC8A90C7           mps11         CC30A9B0A742FCC1E9A408415368391F1299AEA3CB6509FE           mps12         673928915886947F464FDDAAD29A07D182328EBC5839089A           mps13         4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235           mps14         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mps13         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mps14         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mps15         A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702	Code ID	Basic Midamble Codes m <sub>PS</sub> of length <i>P</i> =192
mps2         AE90B477C294E55D28467476C6011029CDE29B7325DF0683           mps3         BC8A44125F823E51E568641EC12A6C68EAFDFA2350E3233C           mps4         898B7317B830D207C9BC7B521D5715680824DC08347B2943           mps5         466C7482C8827655BC13F479C7C1417290679A9841297C4A           mps6         AC0734C27C7DC1B818A84927744290DFE866B0EBA62B0B56E           mps7         0A92106325B15A8C15FC3764724CE67A5056D50A77F9360E           mps8         AE69F62E23035083E6094B89493D33E06FDB6532D473A280           mps8         AE69F62E23035083E6094B89493D33E06FDB6532D473A280           mps8         AE69F62E230350083E6094B89493D33E06FDB6532D473A280           mps8         AE69F62E230350083E6094B89493D33E06FDB653CD473A280           mps8         AE69F62E230350083E6094B89493D33E06FDB653CD473A280           mps8         AE69F62E230350083E6094B8943D33E0FDB65C8DC8A90C7           mps8         AE69F62E230360D2FEAB842C65304FFC956CEBDC8A90C7           mps8         AC3328B5642D2836602FEAB842C65304FFC956CEBDC8A90C7           mps8         AC3328B56947F464FDDAAD29A07D182328EBC5839089A           mps1         CC30A9B0A742FCC1E9A408415368391F1299AEA3CB6509FE           mps1         AC122BAF24529CEA9855FB43CE409232FCA7B3019222AFB04           mps1         AC122ABAF24529CEA9855FB43CE409232FCA7B3019222AFB04           mps1         AC122AF24E756CDA6421340D0087D0087A615E4B8688CB2F75 <tr< td=""><td></td><td>5D253744435A24EF0ECC21F43AA5B8144FBDB348C746080C</td></tr<>		5D253744435A24EF0ECC21F43AA5B8144FBDB348C746080C
mpssa         BC8A444125F823E51E568641EC12A6C68EAFDFA2350E3233C           mps4         898B7317B830D207C9BC7B521D5715680824DC08347B2943           mps5         466C7482C8827655BC13F479C7C1417290679A9841297C4A           mps6         AC0734C27C7DC1B818A8492744290DFE866B0EBA62B0B56E           mps7         0A92106325B15A8C15FC3764724CE67A5056D50A77F9360E           mps8         AE69F62E23035083E6094B89493D33E06FDB6532D473A280           mps8         B485D4E3614C9C373EA1365FA6FA890E9844084EBA90EB0C           mps10         C630A9B0A742FCC1E9A40842C65304FFC956CE8DC8A90C7           mps11         CC30A9B0A742FCC1E9A408415368391F1299AEA3CB6509FE           mps12         673928915886947F464FDDAAD29A07D182328EBC5839089A           mps13         4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235           mps14         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mps15         A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702           mps16         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mps17         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           mps18         2E0105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           mps29         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps22         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD8B120F540C </td <td>m<sub>PS1</sub></td> <td>9D7174187201B5CE0136B7A6D85D39A9DD8D4B00E23835E4</td>	m <sub>PS1</sub>	9D7174187201B5CE0136B7A6D85D39A9DD8D4B00E23835E4
mps4         898B7317B830D207C9BC7B521D5715680824DC08347B2943           mp55         466C7482C8827655BC13F479C7C1417290679A9841297C4A           mp56         AC0734C27C7DC1B818A8A492744290DFE866B0EBA62B0B56E           mp57         0A92106325B15A8C15FC3764724CE67A5056D50A77F9360E           mp58         AE69F62E23035083E6094B89493D33E06FDB6532D473A280           mp58         AE69F62E23035083E6094B89493D33E06FDB6532D473A280           mp59         B485D4E3614C9C373EA1365FA6FA890E9844084EBA90EB0C           mp510         66182885E2D28360D2FEAB842C65304FFC956CE8DC8A90C7           mp511         CC30A9B0A742FCC1E9A408415368391F1299AEA3CB6509FE           mp512         673928915886947F464FDDAAD29A07D182328EBC5839089A           mp513         4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235           mp614         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mp514         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mp515         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mp616         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mp517         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           mp518         8210105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           mp519         88315EC30A94CA4EDB2C77079D9BD810A2E280B50DABB213           mp520         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0 <td>m<sub>PS2</sub></td> <td>AE90B477C294E55D28467476C6011029CDE29B7325DF0683</td>	m <sub>PS2</sub>	AE90B477C294E55D28467476C6011029CDE29B7325DF0683
mpss         466C7482C8827655BC13F479C7C1417290679A9841297C4A           mpss         AC0734C27C7DC1B818A8A492744290DFE866B0EBA62B0B56E           mpsr         0A92106325B15A8C15FC3764724CE67A5056D50A77F9360E           mpss         AE69F62E23035083E6094B89493D33E06FDB6532D473A280           mpss         B485D4E3614C9C373EA1365FA6FA890E9844084EBA90EB0C           mpsi         66182885E2D28360D2FEAB842C65304FFC956CE8DC8A90C7           mpsi         CC30A9B0A742FCC1E9A408415368391F1299AEA3CB6509FE           mpsi         673928915886947F464FDDAAD29A07D182328EBC5839089A           mpsi         673928915886947F464FDDAAD29A07D182328EBC5839089A           mpsi         4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235           mpsi         4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235           mpsi         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mpsi         A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702           mpsi         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mpsi         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mpsi         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           mpsi         8315EC30A94CA4EDB2C77079D9BB10A2E280B50DABB213           mpsi         8315EC30A94CA4EDB2C77079D9B610A2E280B50DABB213           mpsi         8082524           d40E0093D28CB2B2B0A95D18CEB4AB934C	m <sub>PS3</sub>	BC8A44125F823E51E568641EC12A6C68EAFDFA2350E3233C
mpss         AC0734C27C7DC1B818A8A92744290DFE866B0EBA62B0B56E           mps7         OA92106325B15A8C15FC3764724CE67A5056D50A77F9360E           mps8         AE69F62E23035083E6094B89493D33E06FDB6532D473A280           mps8         B485D4E3614C9C373EA1365FA6FA890E9844084EBA90EB0C           mps10         66182885E2D28360D2FEAB842C65304FFC956CE8DC8A90C7           mps11         CC30A9B0A742FCC1E9A408415368391F1299AEA3CB6509FE           mps12         673928915886947F464FDDAAD29A07D182328EBC5839089A           mps13         4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235           mps14         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mps15         A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702           mps16         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mps17         DC2742E756CDA6421340D0087DD087A615E4B868CB2F75           mps18         2E0105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           mps19         88315EC30A94CA4EDB2C77079D9BD810A2E280B50DABB213           mps20         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps21         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps23         EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8           mps24         F82086290271DB44665B1DC15D9BE96414B19B3D5E0F540C <td>m<sub>PS4</sub></td> <td>898B7317B830D207C9BC7B521D5715680824DC08347B2943</td>	m <sub>PS4</sub>	898B7317B830D207C9BC7B521D5715680824DC08347B2943
mps7         0A92106325B15A8C15FC3764724CE67A5056D50A77F9360E           mps8         AE69F62E23035083E6094B89493D33E06FDB6532D473A280           mps9         B485D4E3614C9C373EA1365FA6FA890E9844084EBA90EB0C           mps10         66182885E2D28360D2FEAB842C65304FFC956CE8DC8A90C7           mps11         CC30A9B0A742FCC1E9A408415368391F1299AEA3CB6509FE           mps12         673928915886947F464FDDAAD29A07D182328EBC5839089A           mps13         4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235           mps14         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mps15         A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702           mps16         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mps17         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           mps18         2E0105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           mps19         88315EC30A94CA4EDB2C77079D9BD810A2E280B50DABB213           mps20         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps21         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps23         EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8           mps24         F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C           mps25         11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592     <	m <sub>PS5</sub>	466C7482C8827655BC13F479C7C1417290679A9841297C4A
mpss         AE69F62E23035083E6094B89493D33E06FDB6532D473A280           mps9         B485D4E3614C9C373EA1365FA6FA890E9844084EBA90EB0C           mps10         66182885E2D28360D2FEAB842C65304FFC956CE8DC8A90C7           mps11         CC30A9B0A742FCC1E9A408415368391F1299AEA3CB6509FE           mps12         673928915886947F464FDDAAD29A07D182328EBC5839089A           mps13         4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235           mps14         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mps15         A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702           mps16         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mps17         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           mps18         2E0105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           mps19         88315EC30A94CA4EDB2C77079D9BD810A2E280B50DABB213           mps20         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps21         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps23         EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8           mps24         F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C           mps25         11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           mps26         AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809	m <sub>PS6</sub>	AC0734C27C7DC1B818A8492744290DFE866B0EBA62B0B56E
mps9         B485D4E3614C9C373EA1365FA6FA890E9844084EBA90EB0C           mps10         66182885E2D28360D2FEAB842C65304FFC956CE8DC8A90C7           mps11         CC30A9B0A742FCC1E9A408415368391F1299AEA3CB6509FE           mps12         673928915886947F464FDDAAD29A07D182328EBC5839089A           mps13         4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235           mps14         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mps15         A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702           mps16         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mps17         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           mps18         2E0105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           mps19         88315EC30A94CA4EDB2C77079D9BB10A2E280B50DABB213           mps20         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps20         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps22         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps22         F82086290271D8446B5B1DC15D9BE96414B19B3D5E0F540C           mps23         11A11A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           mps24         F820862802737D84665B157D71E05D1378248CA201EBCC7592	m <sub>PS7</sub>	0A92106325B15A8C15FC3764724CE67A5056D50A77F9360E
mps10         66182885E2D28360D2FEAB842C65304FFC956CE8DC8A90C7           mps11         CC30A9B0A742FCC1E9A408415368391F1299AEA3CB6509FE           mps12         673928915886947F464FDDAAD29A07D182328EBC5839089A           mps13         4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235           mps14         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mps15         A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702           mps16         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mps17         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           mps18         2E0105328B56E9E07D9B5A62F38808AF8D8C2817B54F3302           mps19         88315EC30A94CA4EDB2C77079D9B810A2E280B50DABB213           mps20         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps21         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps22         F82086290271D8446B5B1DC15D9BE96414B1993D5E0F540C           mps22         F82086290271D8446B5B1DC15D9BE96414B1983D5E0F540C           mps22         11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           mps23         AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809           mps24         P12EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8	m <sub>PS8</sub>	AE69F62E23035083E6094B89493D33E06FDB6532D473A280
MPS11         CC30A9B0A742FCC1E9A408415368391F1299AEA3CB6509FE           MPS12         673928915886947F464FDDAAD29A07D182328EBC5839089A           MPS13         4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235           MPS14         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           MPS15         A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702           MPS16         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           MPS17         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           MPS18         2E0105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           MPS19         88315EC30A94CA4EDB2C77079D9BD810A2E280B50DABB213           MPS20         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           MPS21         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           MPS22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           MPS23         EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8           MPS24         F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C           MPS25         11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           MPS26         AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809           MPS27         912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8           MPS28         2D200D888891B804673E380A1AF5AB875986E29D37D3FDC9           MPS29         75E086B6C818423491BF9D6365C52FD1C5E42A576E268170	m <sub>PS9</sub>	B485D4E3614C9C373EA1365FA6FA890E9844084EBA90EB0C
mps12         673928915886947F464FDDAAD29A07D182328EBC5839089A           mps13         4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235           mps14         DAD62DC8BF52F2D140062C2330BE6540E6F86192322AFB04           mps15         A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702           mps16         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mps17         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           mps18         2E0105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           mps19         88315EC30A94CA4EDB2C77079D9BD810A2E280B50DABB213           mps20         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps21         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps23         EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8           mps24         F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C           mps25         11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           mps26         AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809           mps27         912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8           mps28         D2000B88891B804673E380A1AF5AB875986E29D37D3FDC9           mps29         75E086B6C818423491BF9D6365C52FD1C5E42A576E268170           mps30         50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1	m <sub>PS10</sub>	66182885E2D28360D2FEAB842C65304FFC956CE8DC8A90C7
mps13         4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235           mps14         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mps15         A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702           mps16         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mps17         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           mps18         2E0105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           mps19         88315EC30A94CA4EDB2C77079D9BD810A2E280B50DABB213           mps20         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps21         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps23         EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8           mps24         F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C           mps25         11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           mps26         AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809           mps27         912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8           mps28         D2200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9           mps29         75E086B6C818423491BF9D6365C52FD1C5E42A576E268170           mps30         50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1           mps31         656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2	m <sub>PS11</sub>	CC30A9B0A742FCC1E9A408415368391F1299AEA3CB6509FE
mps14         DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04           mps15         A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702           mps16         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mps17         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           mps18         2E0105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           mps19         88315EC30A94CA4EDB2C77079D9BD810A2E280B50DABB213           mps20         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps21         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps23         EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8           mps24         F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C           mps25         11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           mps26         AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809           mps27         912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8           mps28         2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9           mps29         75E086B6C818423491BF9D6365C52FD1C5E42A576E268170           mps30         50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1           mps31         656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2           mps32         C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6	m <sub>PS12</sub>	673928915886947F464FDDAAD29A07D182328EBC5839089A
mpsis         A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702           mpsi6         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mpsi7         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           mpsi8         2E0105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           mpsi9         88315EC30A94CA4EDB2C77079D9BD810A2E280B50DABB213           mpsi0         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mpsi1         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           mpsi2         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mpsi2         EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8           mpsi2         F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C           mpsi2         11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           mpsi2         AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809           mpsi2         912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8           mpsi2         2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9           mpsi3         50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1           mpsi3         656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2           mpsi3         CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS13</sub>	4418861C14D62B46EE6D70D4BF05A3ED801A01BD6CDC5235
mpsis         6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712           mpsi7         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           mpsi8         2E0105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           mpsi9         88315EC30A94CA4EDB2C77079D9BD810A2E280B50DABB213           mps20         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps21         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps23         EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8           mps24         F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C           mps25         11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           mps26         AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809           mps27         912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8           mps28         2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9           mps29         75E086B6C818423491BF9D6365C52FD1C5E42A576E268170           mps30         50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1           mps31         656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2           mps32         C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6           mps33         CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS14</sub>	DAD62DC88F52F2D140062C2330BE6540E6F86192322AFB04
mps17         1DC2742E756CDA6421340D0087DD087A615E4B8688CB2F75           mps18         2E0105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           mps19         88315EC30A94CA4EDB2C77079D9BD810A2E280B50DABB213           mps20         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps21         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps23         EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8           mps24         F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C           mps25         11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           mps26         AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809           mps27         912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8           mps28         2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9           mps29         75E086B6C818423491BF9D6365C52FD1C5E42A576E268170           mps30         50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1           mps31         656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2           mps32         C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6           mps33         CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS15</sub>	A2122BAF24529CEA9855FB43CE40923E7CA7B30D92E40702
mps18         2E0105328B56E9E07D9B5A62F38B08AF8D8C2817B54F3302           mps19         88315EC30A94CA4EDB2C77079D9BD810A2E280B50DABB213           mps20         440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0           mps21         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps23         EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8           mps24         F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C           mps25         11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           mps26         AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809           mps27         912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8           mps28         2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9           mps29         75E086B6C818423491BF9D6365C52FD1C5E42A576E268170           mps30         50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1           mps31         656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2           mps32         C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6           mps33         CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS16</sub>	6C44AB41E11F54B0929DF65673BD231F92A380132D9F1712
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mps21         CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4           mps22         1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817           mps23         EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8           mps24         F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C           mps25         11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           mps26         AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809           mps27         912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8           mps28         2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9           mps29         75E086B6C818423491BF9D6365C52FD1C5E42A576E268170           mps30         50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1           mps31         656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2           mps32         C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6           mps33         CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS19</sub>	88315EC30A94CA4EDB2C77079D9BD810A2E280B50DABB213
mps22       1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817         mps23       EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8         mps24       F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C         mps25       11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592         mps26       AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809         mps27       912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8         mps28       2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9         mps29       75E086B6C818423491BF9D6365C52FD1C5E42A576E268170         mps30       50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1         mps31       656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2         mps32       C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6         mps33       CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS20</sub>	440E0093D28CB2B2B0A95D18CEB4AB934C33FA45C1CFC7B0
mPS23         EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8           mPS24         F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C           mPS25         11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           mPS26         AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809           mPS27         912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8           mPS28         2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9           mPS29         75E086B6C818423491BF9D6365C52FD1C5E42A576E268170           mPS30         50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1           mPS31         656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2           mPS32         C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6           mPS33         CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS21</sub>	CC9BF85D41A96A6EC314F9611D5E1C0672556C8850801BB4
m <sub>PS24</sub> F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C           m <sub>PS25</sub> 11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592           m <sub>PS26</sub> AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809           m <sub>PS27</sub> 912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8           m <sub>PS28</sub> 2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9           m <sub>PS29</sub> 75E086B6C818423491BF9D6365C52FD1C5E42A576E268170           m <sub>PS30</sub> 50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1           m <sub>PS31</sub> 656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2           m <sub>PS32</sub> C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6           m <sub>PS33</sub> CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS22</sub>	1ABEA04C99BC26972715F01957C0B6B959CC71CD88120817
mPS25       11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592         mPS26       AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809         mPS27       912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8         mPS28       2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9         mPS29       75E086B6C818423491BF9D6365C52FD1C5E42A576E268170         mPS30       50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1         mPS31       656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2         mPS32       C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6         mPS33       CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS23</sub>	EC5A33DA0BA4470442C5CB324A8E47B0A9F7968FC8108EE8
mPS26       AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809         mPS27       912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8         mPS28       2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9         mPS29       75E086B6C818423491BF9D6365C52FD1C5E42A576E268170         mPS30       50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1         mPS31       656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2         mPS32       C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6         mPS33       CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS24</sub>	F82086290271DB446B5B1DC15D9BE96414B19B3D5E0F540C
m <sub>PS27</sub> 912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8           m <sub>PS28</sub> 2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9           m <sub>PS29</sub> 75E086B6C818423491BF9D6365C52FD1C5E42A576E268170           m <sub>PS30</sub> 50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1           m <sub>PS31</sub> 656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2           m <sub>PS32</sub> C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6           m <sub>PS33</sub> CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS25</sub>	11A1A790D6958FD3A9157DF1E05D1378248CA201EBCC7592
m <sub>PS28</sub> 2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9           m <sub>PS29</sub> 75E086B6C818423491BF9D6365C52FD1C5E42A576E268170           m <sub>PS30</sub> 50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1           m <sub>PS31</sub> 656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2           m <sub>PS32</sub> C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6           m <sub>PS33</sub> CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS26</sub>	AA8564882231907BCE78092DC6C9DD4F5A0E4A34AFCFB809
mPS29       75E086B6C818423491BF9D6365C52FD1C5E42A576E268170         mPS30       50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1         mPS31       656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2         mPS32       C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6         mPS33       CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS27</sub>	912EE2238212F87BC7CDA7F30441ED184A6AA954EC4D20C8
m <sub>PS30</sub> 50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1           m <sub>PS31</sub> 656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2           m <sub>PS32</sub> C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6           m <sub>PS33</sub> CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS28</sub>	2D200D8B8891B804673E380A1AF5AB875986E29D37D3FDC9
m <sub>PS31</sub> 656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2         m <sub>PS32</sub> C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6         m <sub>PS33</sub> CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS29</sub>	75E086B6C818423491BF9D6365C52FD1C5E42A576E268170
m <sub>PS32</sub> C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6           m <sub>PS33</sub> CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS30</sub>	50ADBF27DA2A3701470186B699118E16DDB0D10F705607B1
m <sub>PS33</sub> CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2	m <sub>PS31</sub>	656C0692B4E22023590A906D2A74DFD471C883A7B1E0B3A2
	m <sub>PS32</sub>	C21FDACD09A3CDCE74C4794010A3E45769B142505C56A0E6
m 056426EEED9D9D52072E97094E10C4D255064E1272C04424	m <sub>PS33</sub>	CD9392A87C2D4D7CE5801CDDA8A76339B6F900F008B290E2
	m <sub>PS34</sub>	956426FEFD8B8D52073E87984E10C4D255064E1372C04A24

MP6335         C4F4DebF1B754ADe063FD10C331C1428AB827B0700134B84           MP6336         B65548082B34E9FAF43F33C4070F79099758CFD41B491A11           MP6337         C8317EA111482B04F78B88B864B1EF5D711BBEB4A0527036           MP6338         BFB7AD1188E8D1A5219845013672560FD38904E70537403B           MP6339         B414324E0D80AA0598A8D391C1D7FFC82B4A075218E98EC3           MP6330         49A6350A62E208B011E86528B9A4B1A0E76D723F6675FF82           MP6341         C344C3C23C42A7B7442E6022E9SAE4B08A4BFA786F35F911           MP6342         22F430CF67D69C9DF60E25656413BC5F932A022DB1406C44           MP6343         22F430CF67D69C9DF60E256566413BC5F932A022DB1406C44           MP6343         25F430CF67D69C9DF4213F32116051453931C2A627D9B670C428           MP6344         359537D988FD04F1360B4E84701A5E409229C30EDF8BC404           MP6345         CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22           MP6346         CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22           MP6347         431FCACBE48208975950342709D11F19AD5FB047F38H40C9           MP6347         431FCACBE48208975950342709D11F19AD5FB047F38H40C9           MP6347         431FCACBE48208975950342709D11F19AD5FB047F38H40C9           MP6348         86D2197ABD34E8510F6CDBCA617F1F1051C8789117F802111           MP6349         86D2297ABD34E87310F6CDB0FA617F1F1051C8789117F802224E5A           MP6351         D234C5C45E105A937E6DD7AB		
MP6337         C8317EA111A82B04E78B88B864B1EF5D711BBEB4A0527036           MP6338         8FB7AD1188EBD1A5219845013672560FD38904E70537403B           MP6339         B414324E0D80AA0598ABD391C1D7FFC82B4A075218E98EC3           MP644         49A6350A62E208B011E86528B9A481A0E76D723F6675FF82           MP644         49A6452042A7B7442E6022E95AE4B08A4BFA786F35F911           MP642         28F430CF67D69C9DF60E25656413BC5F932A022DB1406C44           MP643         2FA5D70CF0FED4213F32116051450391C2A62709B670C428           MP644         959537D988FDD4F1360B4E84701AE5409229C30EDF8BC404           MP649         959537D988FDD4F1360B4E84701AE5409229C30EDF8BC404           MP649         158776A20B4882C563EC08F086830EA66DBD2DCCB4DF6026           MP649         158776A20B4882C563EC08F086830EA66DBD2DCCB4DF6026           MP649         341FCACBE48208975950342709D11F19AD5FB047F3B440C9           MP649         86B141AC571BA6B42653B12FF04D4F0E6C81F3EB608660A2           MP649         80D297ABD34E8510F6CDB0EA617F1F1051C8799117B022211           MP650         80B20973B37D8845601C1E574E14CFC6912C22AEC1045ADC49           MP651         2B607B393FD8B45601C1E574E14CFC6912C22AEC1045ADC49           MP652         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           MP653         768CCDB3E2A7A2B863128332590946B25472BE28FFC40641           MP653         30A38212E09387E21F665D4E13C2AA444E600A76C948A073 </th <th>m<sub>PS35</sub></th> <th>C4F4D6DF1B754AD6063FD10C331C1428ABB27B0700134B94</th>	m <sub>PS35</sub>	C4F4D6DF1B754AD6063FD10C331C1428ABB27B0700134B94
Imp6338         8FB7AD1188E8D1A5219845013672560FD38904E70537403B           Imp6339         B411A324E0D80AA0598A8D391C1D7FFC82B4A075218E98EC3           Imp6340         49A6350A62E208B011E86528B9A481A0E76D723F6675FF82           Imp641         C344C8C23C42A7B7442E6022E95AE4B08A4BFA786F35F911           Imp642         228F430CF67D99C9DF60E256566413BC5F932A022DB1406C44           Imp643         22FA5D70CF0FED4213F32116051450391C2A627D98670C428           Imp644         959637D988FDD4F1360B4E84701AE6409229C30EDF8BC404           Imp645         CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22           Imp646         CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22           Imp647         CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22           Imp648         CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22           Imp649         CDD2E0450F9EC12F81391AD4633CB29F315B440C9           Imp840         86B141AC571BA6B42653B12FF04D4F0E6C81F3EB608660A2           Imp841         86B141AC571BA6B42653B12FF04D4F0E6C81F3EB608660A2           Imp842         80B229F3ABD34E8510F6CDB0EA617F1F1051C8799117B022211           Imp843         80B229F3ABD34E8510F6CDB0EA617F1F1051C8799117B022211           Imp844         B99832           D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           Imp845         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           Imp846	m <sub>PS36</sub>	B65548082B34E9FAF43F33C4070F79099758CFD41B491A11
MP8309         B41A324E0D80AA0598A8D391C1D7FFC82B4A075218E98EC3           MP8401         49A6350A62E208B011E86528B9A481A0E76D723F6675FF82           MP841         C344C8C23C42A7B744ZE602ZE95AE4B08A4BFA786F35F911           MP842         28F430CF67D69C9DF60E256566413BC5F932A022DB1406C44           MP843         25FA5D70CF0FED4213F32116051450391C2A627D9B670C428           MP844         959537D988FDD4F1360B4E84701AE5409229C30EDF8BC404           MP845         CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22           MP846         CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22           MP847         431FCACBE48208975950342709D11F19AD5FB04F3B440C9           MP847         431FCACBE48208975950342709D11F19AD5FB04F3B440C9           MP849         486D297ABD34E8510F6CDB0EA617F1F1051C8799117B02211           MP850         80B2D9530B34E781311D95CFA3857F277CC07014D324AF5A           MP851         2B607B93FD8B45601C1E574E14CFC6912C22AEC1045ADC49           MP852         D234C5C45E105A837E6DD74BC4E534523A2313TBA0625A29           MP853         768CCDB3E2A7A2B863128382590946B25472BE2BFFC40641           MP854         3DA38212E0A987EE1F665D4E13C2AA4446E00A76C948A073           MP855         522E0708266F35E99C1F3C42D2017F8E415550492B72F086           MP856         522E0708266F35E99C1F3C42D2017F8E415550492B72F086           MP857         D63E4BD805262A3DEF05C7D86C422E5048921E5531784132	m <sub>PS37</sub>	C8317EA111A82B04E78B88B864B1EF5D711BBEB4A0527036
mpsau         49A6350A62E208B011E86528B9A481A0E76D723F6675FF82           mpsau         C344C8C23C42A7B7442E6022E95AE4B08A4BFA786F35F911           mpsau2         28F430CF67D69C9DF60E25656413BC5F932A022DB1406C44           mpsau2         2FA5D70CF0FED4213F32116051450391C2A627D9B670C428           mpsau3         2FA5D70CF0FED4213F32116051450391C2A627D9B670C428           mpsau3         2FA5D70CF0FED4213F32116051450391C2A627D9B670C428           mpsau4         959537D98BFDD4F1360B4E84701AE5409229C30EDF8BC404           mpsau4         3959537D98BFDD4F1360B4E84701AE5409229C30EDF8BC404           mpsau5         158776A20B4B82C563EC08F086830EA66DBD2DCCB4DF6026           mpsau7         431FCACBE48208975950342709D11F19AD5FB047F3B440C9           mpsau7         431FCACBE48208975950342709D11F19AD5FB047F3B440C9           mpsau8         86B141ACS71BA6B42653B12FF04D4F0E6C81F3EB608660A2           mpsau8         86B141ACS71BA6B42653B12FF04D4F0E6C81F3EB608660A2           mpsau9         80B2D9530B34E781311D95CFA3857F277CC07014D324AF5A           mpsau9         80B2D9530B34E781311D95CFA3857F277CC07014D324AF5A           mpsau9         2860CDB32A7A2B6612128574E042222AEC1045AD0C49           mpsau9         768CCDB3E2A7A2B663128382590946B25472BE2BFFC40641           mpsau9         3D438212E0A987E1F665D4E13C2AA4446E00A76C948A073           mpsau9         3D438212E0A987E16F65AP5AB5257110906F013587	m <sub>PS38</sub>	8FB7AD1188E8D1A5219845013672560FD38904E70537403B
mps41         C344C8C23C42A7B7442E6022E95AE4B08A4BFA786F35F911           mps42         28F430CF67D69C9DF60E25656413BC5F932A022DB1406C44           mps43         27A5D70CF0FED4213F32116051450391C2A627D9B670C428           mps44         959537D988FDD4F1360B4E84701AE5409229C30EDF8BC404           mps44         959537D988FDD4F1360B4E84701AE5409229C30EDF8BC404           mps44         CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22           mps44         158776A20B4B82C563EC08F086830EA66DBD2DCCB4DF6026           mps47         431FCACBE48208975950342709D11F19AD5FB047F3B440C9           mps48         368141AC571BA6B42653B12FF04D4F0E6C81F3EB608660A2           mps49         868141AC571BA6B42653B12FF04D4F0E6C81F3EB608660A2           mps49         80B297ABD34E8510F6CDB0EA617F1F1051C8799117B02211           mps50         80B297ABD34E8510F6CDB0EA617F1F1051C8799117B02211           mps51         28607B93FD845601C1E574E14CFC6912C22AEC1045ADC49           mps52         28607B93FD845601C1E574E14CFC6912C22AEC1045AD0625A29           mps52         768CCDB3E2A7A2B863128382590946B25472BE2BFFC40641           mps53         768CCDB3E2A7A2B86312838259046B25472BE2BFFC40641           mps54         3DA38212E0A987E11F665DAE13C2AA4446E00A76C948A073           mps55         5022F070B266F35E99C1F3C42D2017F8E415550492B72F086           mps56         522E070B266F35E99C1F3C42D2017F8E415550492B72F086	m <sub>PS39</sub>	B41A324E0D80AA0598A8D391C1D7FFC82B4A075218E98EC3
MPSM2         28F430CF67D69C9DF60E25656413BC5F932A022DB1406C44           MPSM3         2FA5D70CF0FED4213F32116051450391C2A627D9B670C428           MPSM4         959537D988FDD4F1360B4E84701AE5409229C30EDF8BC404           MPSM6         CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22           MPSM6         158776A20B4B82C563EC08F086830EA66DBD2DCCB4DF6026           MPSM8         158776A20B4B82C563EC08F086830EA66DBD2DCCB4DF6026           MPSM8         431FCACBE48208975950342709D11F19AD5FB047F3B440C9           MPSM8         486B141AC571BA6B426553B12FF04D4F0E6C81F3EB608660A2           MPSM8         86B297ABD34E8510F6CDB0EA617F1F1051C8799117B02211           MPSM8         86D297ABD34E8510F6CDB0EA617F1F1051C8799117B02211           MPSM9         86D297ABD34E8510F6CDB0EA617F1F1051C8799117B02211           MPSM9         80B2D9530B34E781311D95CFA3857F277CC07014D324AF5A           MPSS9         228607B39FD8B45601C1E574E14CFC6912C22AEC1045ADC49           MPSS9         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           MPSS9         768CCDB3522A7A2B863128382590946B25472BE2BFFC40641           MPSS9         709173135E4A2CFC8F2678750AB5257110906F013587BDE82           MPSS9         09173135E4A2CFC8F2678750AB5257110906F013587BDE82           MPSS9         503E4BD805262A3DEF05C7D86C422E5048921E5531784132           MPSS9         D63E4BD805262A3DEF05C7D86C422E5048921E5531784132 <th>m<sub>PS40</sub></th> <th>49A6350A62E208B011E86528B9A481A0E76D723F6675FF82</th>	m <sub>PS40</sub>	49A6350A62E208B011E86528B9A481A0E76D723F6675FF82
mpssas         2FA5D70CF0FED4213F32116051450391C2A627D9B670C428           mpssa4         959537D988FDD4F136084E84701AE5409229C30EDF8BC404           mpssa6         CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22           mpssa6         158776A20B4B82C563EC08F08830EA66DBD2DCCB4DF6026           mpssa7         431FCACBE48208975950342709D11F19AD5FB047F3B440C9           mpssa7         436D27ABD34E8510F6CDB0EA617F1F1051C8799117B02211           mpssa9         86B141AC571BA6B42653B12FF04D4F0E6C81F3EB60860A2           mpssa9         86D297ABD34E8510F6CDB0EA617F1F1051C8799117B02211           mpssa0         80B2D9530B34E781311D95CFA3857F277CC07014D324AF5A           mpssa1         28607B93FD8B45601C1E574E14CFC6912C22AEC1045ADC49           mpssa1         228607B93FD8B45601C1E574E14CFC6912C22AEC1045ADC49           mpssa1         768CCDB32E2A7A2B86312832590946B25472BE2BFFC40641           mpssa2         768CCDB32E2A7A2B86312832590946B25472BE2BFFC40641           mpssa3         768CCDB32E2A7A2B86312832590946B25472BE2BFFC40641           mpssa5         90173135E4A2CFC68F2678750AB5257110906F013587BDE82           mpssa5         90173135E4A2CFC68F2678750AB5257110906F013587BDE82           mpssa5         504AF806E28131611E5F884229265D446A50E1E488EAFBA           mpssa6         522E070B266F35E99C1F3CC5D67D86C422E5048921E5531784132           mpssa6         4815B006259D332E28246E4271C375A	m <sub>PS41</sub>	C344C8C23C42A7B7442E6022E95AE4B08A4BFA786F35F911
mps44         959537D988FDD4F1360B4E84701AE5409229C30EDF8BC404           mps45         CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22           mps46         158776A20B4B82C563EC08F086830EA66DBD2DCCB4DF6026           mps47         431FCACEE48208975950342709D11F19AD5FB047F3B440C9           mps48         86B141AC571BA6B42653B12FF04D4F0E6C81F3EB60860A2           mps48         86D297ABD34E8510F6CDB0EA617F1F1051C8799117B02211           mps59         80B2D9630B34E781311D95CFA3857F277CC07014D324AF5A           mps59         2B607B937D8B45601C1E574E14CFC6912C22AEC1045ADC49           mps50         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           mps50         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           mps50         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           mps50         JABA3212E0A987EE1F665D4E13C2AA4446E00A76C948A073           mps50         JABA3212E0A987EE1F665D4E13C2AA4446E00A76C948A073           mps50         JABA524CFC8F2678750AB5257110906F013587BDE82           mps50         JBA52E4D2C07B266F35E99C1F3C42D2017F8E415550492B72F086           mps50         JBA52E4D2B66F35E99C1F3C42D2017F8E415550492B72F086           mps50         JBA52E4BD805262A3DEF05C7D86C422E5048921E5531784132           mps50         JBA52E4BD805262A3DEF05C7D86C422E5048921E5531784132           mps50         A2603E009D3D30147727B750C35C62299AF754D3E4A5E1C	m <sub>PS42</sub>	28F430CF67D69C9DF60E25656413BC5F932A022DB1406C44
mps46         CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22           mps46         158776A20B4B82C563EC08F086830EA66DBD2DCCB4DF6026           mps47         431FCACBE48208975950342709D11F19AD5FB047F3B440C9           mps48         86B141AC571BA6B42653B12FF04D4F0E6C81F3EB608660A2           mps48         86B141AC571BA6B42653B12FF04D4F0E6C81F3EB608660A2           mps49         80D297ABD34E8510F6CDB0EA617F1F1051C8799117B02211           mps50         80B2D9530B34E781311D95CFA3857F277CC07014D324AF5A           mps51         2B607B93FD8B45601C1E574E14CFC6912C22AEC1045ADC49           mps52         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           mps53         768CCDB3E2A7A2B863128382590946B25472BE2BFFC40641           mps54         3DA38212E0A987EE1F665D4E13C2AA4446E00A76C948A073           mps55         09173135E4A2CFC8F2678750AB5257110906F013587BDE82           mps55         051373135E4A2CFC8F2678750AB5257110906F013587BDE82           mps56         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mps57         D63E4BD805262A3DEF05C7D86C422E5048921E5531784132           mps58         564AF806E28131611E5F884229265D446A50E1E488EAFBBA           mps59         328504B02599D33E28246E4271C375AE81A3BBE8D3F8A920           mps60         388504B02599D33E28246E4271C375AE81A3BBE8D3F8A920           mps60         388504B02599D33E282C0EP5P39E3F0F0CFA881AA5 <th>m<sub>PS43</sub></th> <th>2FA5D70CF0FED4213F32116051450391C2A627D9B670C428</th>	m <sub>PS43</sub>	2FA5D70CF0FED4213F32116051450391C2A627D9B670C428
mps46         158776A20B4B82C563EC08F086830EA66DBD2DCCB4DF6026           mp547         431FCACBE48208975950342709D11F19AD5FB047F3B440C9           mp548         86B141AC571BA6B42653B12FF04D4F0E6C81F3EB608660A2           mp548         86D297ABD34E8510F6CDB0EA617F1F1051C8799117B02211           mp550         80B2D9530B34E781311D95CFA3857F277CC07014D324AF5A           mp551         2B607B93FD8B45601C1E574E14CFC6912C22AEC1045ADC49           mp551         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           mp552         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           mp553         768CCDB3E2A7A2B863128382590946B25472BE2BFFC40641           mp554         3DA38212E0A987EE1F665D4E13C2AA4446E00A76C948A073           mp555         09173135E4A2CFC8F2678750AB5257110906F013587BDE82           mp556         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mp557         D63E4BD805262A3DEF05C7D86C422E5048921E5531784132           mp586         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mp587         A2603E009D3D30147727B750C35C62299AF754D3E4A54E1C           mp5889         A2603E009D3D30147727B750C35C62299AF754D3E4A54E1C           mp5890         38504B02599D33E28246E4271C375AE81A3BBE8D3F6A920           mp6801         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mp5802         29186DE4CCAAB2CD0100BB19EA595879D63F00CFA881AA5	m <sub>PS44</sub>	959537D988FDD4F1360B4E84701AE5409229C30EDF8BC404
mps44         431FCACBE48208975950342709D11F19AD5FB047F3B440C9           mps48         86B141AC571BA6B42653B12FF04D4F0E6C81F3EB608660A2           mps49         86D297ABD34E8510F6CDB0EA617F1F1051C8799117B02211           mps50         80B2D9530B34E781311D95CFA3857F277CC07014D324AF5A           mps51         2B607B93FD8B45601C1E574E14CFC6912C22AEC1045ADC49           mps52         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           mps53         768CCDB3E2A7A2B863128382590946B25472BE2BFFC40641           mps53         3DA38212E0A987EE1F665D4E13C2AA4446E00A76C948A073           mps53         09173135E4A2CFC8F2678750AB5257110906F013587BDE82           mps55         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mps55         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mps56         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mps57         b63E4BD805262A3DEF05C7D86C422E5048921E5531784132           mps58         564AF806E28131611E5F884229265D446A50E1E488EAFBBA           mps59         A2603E009D3D30147727B750C35C62299AF754D3E4A54E1C           mps60         388504B02599D33E28246E4271C375AE81A3BBE8D3F8A920           mps61         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mps62         29186DE4CCAAB2CD0100BB19EA595879D63F0F0CFA881AA5           mps63         A064B449CB784A91B803369CDC5EF61A670AAAC044BA3E68	m <sub>PS45</sub>	CDD2E0450F9EC12F81391AD4633CB29F315B4A0A890A9A22
mpsss         86B141AC571BA6B42653B12FF04D4F0E6C81F3EB608660A2           mpsss         86D297ABD34E8510F6CDB0EA617F1F1051C8799117B02211           mpsss         80B2D9530B34E781311D95CFA3857F277CC07014D324AF5A           mpsss1         2B607B93FD8B45601C1E574E14CFC6912C22AEC1045ADC49           mpsss2         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           mpsss3         768CCDB3E2A7A2B863128382590946B25472BE2BFFC40641           mpsss4         3DA38212E0A987EE1F665D4E13C2AA4446E00A76C948A073           mpsss5         09173135E4A2CFC8F2678750AB5257110906F013587BDE82           mpsss6         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mpsss6         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mpsss7         D63E4BD805262A3DEF05C7D86C422E5048921E5531784132           mpsss6         564AF806E28131611E5F884229265D446A50E1E488EAFBBA           mpsss9         A2603E009D330147727B750C35C62299AF754D3E4A54E1C           mpss8         A2603E009D330147727B750C35C62299AF754D3E4A54E1C           mpsse         938504B02599D33E28246E4271C375AE81A3BBE8D3F8A920           mpsse1         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mpsse2         29186DE4CCAAB2CD0100BB19EA595879D63F0CFA881AA5           mpss6         8719C454D88FF5149DB943CB6CADA01D0B9664B357A18203           mpss6         A27EC68720F00A714AA2C45A7EF232286984D7B193F5C916	m <sub>PS46</sub>	158776A20B4B82C563EC08F086830EA66DBD2DCCB4DF6026
mps48         86D297ABD34E8510F6CDB0EA617F1F1051C8799117B02211           mps50         80B2D9530B34E781311D95CFA3857F277CC07014D324AF5A           mps51         28607B93FD8B45601C1E574E14CFC6912C22AEC1045ADC49           mps52         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           mps53         768CCDB3E2A7A2B863128382590946B25472BE2BFFC40641           mps53         3DA38212E0A987EE1F665D4E13C2AA4446E00A76C948A073           mps56         09173135E4A2CFC8F2678750AB5257110906F013587BDE82           mps57         063E4BD805262A3DEF05C7D86C422E5048921E5531784132           mps57         D63E4BD805262A3DEF05C7D86C422E5048921E5531784132           mps58         564AF806E28131611E5F884229265D446A50E1E488EAFBBA           mps59         A2603E009D3D30147727B750C35C62299AF754D3E4A54E1C           mps60         38504B02599D33E28246E4271C375AE81A3BBE8D3F8A920           mps61         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mps62         29186DE4CCAAB2CD0100BB19EA595879D63F0F0CFA881AA5           mps63         A7964B449CB784A91B803369CDC5EF61A670AAAC044BA3E68           mps64         8719C454D88FF5149DB943CB6CADA01D0B9664B357A18203           mps65         A27EC68720F00A714AA2C45A7EF232286984D7B193F5C916           mps66         AC8361676AB424E48F0789082B0CD2EFBBD2E627D041D066           mps67         ABA1BEB0064733A0620906BF2B29C95883F069D7E4C35D39	m <sub>PS47</sub>	431FCACBE48208975950342709D11F19AD5FB047F3B440C9
mpsso         80B2D9530B34E781311D95CFA3857F277CC07014D324AF5A           mpssi         2B607B93FD8B45601C1E574E14CFC6912C22AEC1045ADC49           mpssi         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           mpssi         768CCDB3E2A7A2B863128382590946B25472BE2BFFC40641           mpssi         3DA38212E0A987EE1F665D4E13C2AA4446E00A76C948A073           mpssi         09173135E4A2CFC8F2678750AB5257110906F013587BDE82           mpssi         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mpssi         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mpssi         563E4BD805262A3DEF05C7D86C422E5048921E5531784132           mpssi         564AF806E28131611E5F884229265D446A50E1E488EAFBBA           mpssi         32603E009D3D30147727B750C35C62299AF754D3E4A54E1C           mpssi         38504B02599D33E28246E4271C375ABE81A3BBE8D3F8A920           mpsi         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mpsi         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mpsi         461544D88FF5149D8943CB6CADA01D0B9664B357A18203           mpsi         A79CC6873BB5A491B803369CD5EF61A670AAAC044BA3E68           mpsi         A79CC6873BB5A544D8B57A18203           mpsi         A79CC6873BB5A544B805A6CADA01D0B9664B357A18203           mpsi         A79CC68720F00A714AA2C45A7EF2322868984D7B193F5C916           mpsi	m <sub>PS48</sub>	86B141AC571BA6B42653B12FF04D4F0E6C81F3EB608660A2
mpssid         28607893FD8845601C1E574E14CFC6912C22AEC1045ADC49           mpssiz         D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29           mpssid         3DA38212E0A987EE1F665D4E13C2AA4446E00A76C948A073           mpssid         3DA38212E0A987EE1F665D4E13C2AA4446E00A76C948A073           mpssid         09173135E4A2CFC8F2678750AB5257110906F013587BDE82           mpssid         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mpssid         564AF806E28131611E5F884229265D446A50E1E488EAFBBA           mpssid         564AF806E28131611E5F884229265D446A50E1E488EAFBBA           mpssid         A2603E009D3D30147727B750C35C62299AF754D3E4A54E1C           mpssid         938504B02599D33E28246E4271C375AE81A3BBE8D3F8A920           mpssid         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mpssid         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mpssid         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mpssid         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mpssid         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mpssid         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mpssid         461516B2CAC6FC42AB2CD0100BB19EA595879D63F0F0CFA881AA5           mpssid         A064B449CB784A91B803369CDC5EF61A670AAAC044BA3E68           mpssid         A7EC68720F00A714AA2C45A7EF232286	m <sub>PS49</sub>	86D297ABD34E8510F6CDB0EA617F1F1051C8799117B02211
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mpssal         3DA38212E0A987EE1F665D4E13C2AA4446E00A76C948A073           mpssb         09173135E4A2CFC8F2678750AB5257110906F013587BDE82           mpssb         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mpssb         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mpssb         D63E4BD805262A3DEF05C7D86C422E5048921E5531784132           mpssb         564AF806E28131611E5F884229265D446A50E1E488EAFBBA           mpssb         A2603E009D3D30147727B750C35C62299AF754D3E4A54E1C           mpssb         938504B02599D33E28246E4271C375AE81A3BBE8D3F8A920           mpssb         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mpssb         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mpssb         29186DE4CCAAB2CD0100BB19EA595879D63F0F0CFA881AA5           mpssb         A064B449CB784A91B803369CDC5EF61A670AAAC044BA3E68           mpssb         A719C454D88FF5149DB943CB6CADA01D0B9664B357A18203           mpssb         A27EC68720F00A714AA2C45A7EF232286984D7B193F5C916           mpssb         A27EC68720F00A714AA2C45A7EF232286984D7B193F5C916           mpssb         AC8361676AB424E48F0789082B0CD2EFB8D2E627D041DD66           mpssb         ABA1BEB0064733A0620906BF2B29C95883F069D7E4C35D39           mpssb         9E22EEDED47D92CA1D0B7530EC6062287BD83A04874AE00C           mpssb         953801EB2AF58C2F80E49A6CC46085CB554243E3B3BBEC8C	m <sub>PS52</sub>	D234C5C45E105A837E6DD74BC4E534523A20317BA0625A29
mpsss         09173135E4A2CFC8F2678750AB5257110906F013587BDE82           mpss6         522E070B266F35E99C1F3C42D2017F8E415550492B72F086           mpss7         D63E4BD805262A3DEF05C7D86C422E5048921E5531784132           mpss8         564AF806E28131611E5F884229265D446A50E1E488EAFBBA           mpss9         A2603E009D3D30147727B750C35C62299AF754D3E4A54E1C           mpss0         938504B02599D33E28246E4271C375AE81A3BBE8D3F8A920           mps61         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mps62         29186DE4CCAAB2CD0100BB19EA595879D63F0F0CFA881AA5           mps63         A064B449CB784A91B803369CDC5EF61A670AAAC044BA3E68           mps64         8719C454D88FF5149DB943CB6CADA01D0B9664B357A18203           mps65         A27EC68720F00A714AA2C45A7EF232286984D7B193F5C916           mps66         AC8361676AB424E48F0789082B0CD2EFB8D2E627D041DD66           mps67         ABA1BEB0064733A0620906BF2B29C95883F069D7E4C35D39           mps68         9E22EEDED47D92CA1D0B7530EC6062287BD83A04874AE00C           mps70         953801EB2AF58C2F80E49A6CC46085CB554243E3B3BBEC8C           mps71         333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484           mps72         A6583E19647662005474153A6F8DD88A473853E94B720CE7           mps73         90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8           mps74         39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB	m <sub>PS53</sub>	768CCDB3E2A7A2B863128382590946B25472BE2BFFC40641
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mpssf         D63E4BD805262A3DEF05C7D86C422E5048921E5531784132           mpsss         564AF806E28131611E5F884229265D446A50E1E488EAFBBA           mpsss         564AF806E28131611E5F884229265D446A50E1E488EAFBBA           mpsss         A2603E009D3D30147727B750C35C62299AF754D3E4A54E1C           mpss6         938504B02599D33E28246E4271C375AE81A3BBE8D3F8A920           mpss6         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mpss6         29186DE4CCAAB2CD0100BB19EA595879D63F0F0CFA881AA5           mpss6         A064B449CB784A91B803369CDC5EF61A670AAAC044BA3E68           mpss6         8719C454D88FF5149DB943CB6CADA01D0B9664B357A18203           mpss6         A27EC68720F00A714AA2C45A7EF232286984D7B193F5C916           mpss6         AC8361676AB424E48F0789082B0CD2EFB8D2E627D041DD66           mpss6         AC8361676AB424E48F0789082B0CD2EFB8D2E627D041DD66           mpss6         ABA1BEB0064733A0620906BF2B29C95883F069D7E4C35D39           mps88         9E22EEDED47D92CA1D0B7530EC6062287BD83A04874AE00C           mps69         0BADEF288B20F5686C5DE3A71219AC2172054326BE831696           mps70         953801EB2AF58C2F80E49A6CC46085CB554243E3B3BBEC8C           mps71         333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484           mps72         A6583E19647662005474153A6F8DD88A473853E94B720CE7           mps73         90ACAF707D18AF34F5848C58166830AF620ACDC182DFDDA8	m <sub>PS55</sub>	09173135E4A2CFC8F2678750AB5257110906F013587BDE82
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mps60         938504B02599D33E28246E4271C375AE81A3BBE8D3F8A920           mps61         461516B2CAC6FC42A4B707CC6073BBE573C014892C811776           mps62         29186DE4CCAAB2CD0100BB19EA595879D63F0F0CFA881AA5           mps63         A064B449CB784A91B803369CDC5EF61A670AAAC044BA3E68           mps64         8719C454D88FF5149DB943CB6CADA01D0B9664B357A18203           mps65         A27EC68720F00A714AA2C45A7EF232286984D7B193F5C916           mps66         AC8361676AB424E48F0789082B0CD2EFB8D2E627D041DD66           mps67         ABA1BEB0064733A0620906BF2B29C95883F069D7E4C35D39           mps68         9E22EEDED47D92CA1D0B7530EC6062287BD83A04874AE00C           mps69         0BADEF288B20F5686C5DE3A71219AC2172054326BE831696           mps70         953801EB2AF58C2F80E49A6CC46085CB554243E3B3BBEC8C           mps71         333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484           mps72         A6583E19647662005474153A6F8DD88A473853E94B720CE7           mps73         90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8           mps74         39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB           mps75         F79525DE694629346D73F6256CC0F140F82603197AAA1844           mps76         B8C2A8F139097699A693022E78588D4058DB0A65FF52F813           mps77         449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS58</sub>	564AF806E28131611E5F884229265D446A50E1E488EAFBBA
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mpS62         29186DE4CCAAB2CD0100BB19EA595879D63F0F0CFA881AA5           mpS63         A064B449CB784A91B803369CDC5EF61A670AAAC044BA3E68           mpS64         8719C454D88FF5149DB943CB6CADA01D0B9664B357A18203           mpS65         A27EC68720F00A714AA2C45A7EF232286984D7B193F5C916           mpS66         AC8361676AB424E48F0789082B0CD2EFB8D2E627D041DD66           mpS67         ABA1BEB0064733A0620906BF2B29C95883F069D7E4C35D39           mpS68         9E22EEDED47D92CA1D0B7530EC6062287BD83A04874AE00C           mpS69         0BADEF288B20F5686C5DE3A71219AC2172054326BE831696           mpS70         953801EB2AF58C2F80E49A6CC46085CB554243E3B3BBEC8C           mpS71         333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484           mpS72         A6583E19647662005474153A6F8DD88A473853E94B720CE7           mpS73         90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8           mpS74         39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB           mpS75         F79525DE694629346D73F6256CC0F140F82603197AAA1844           mpS76         B8C2A8F139097699A693022E78588D4058DB0A65FF52F813           mpS77         449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS60</sub>	938504B02599D33E28246E4271C375AE81A3BBE8D3F8A920
mps63         A064B449CB784A91B803369CDC5EF61A670AAAC044BA3E68           mps64         8719C454D88FF5149DB943CB6CADA01D0B9664B357A18203           mps65         A27EC68720F00A714AA2C45A7EF232286984D7B193F5C916           mps66         AC8361676AB424E48F0789082B0CD2EFB8D2E627D041DD66           mps67         ABA1BEB0064733A0620906BF2B29C95883F069D7E4C35D39           mps68         9E22EEDED47D92CA1D0B7530EC6062287BD83A04874AE00C           mps69         0BADEF288B20F5686C5DE3A71219AC2172054326BE831696           mps70         953801EB2AF58C2F80E49A6CC46085CB554243E3B3BBEC8C           mps71         333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484           mps72         A6583E19647662005474153A6F8DD88A473853E94B720CE7           mps73         90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8           mps74         39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB           mps75         F79525DE694629346D73F6256CC0F140F82603197AAA1844           mps76         B8C2A8F139097699A693022E78588D4058DB0A65FF52F813           mps77         449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS61</sub>	461516B2CAC6FC42A4B707CC6073BBE573C014892C811776
mpS64         8719C454D88FF5149DB943CB6CADA01D0B9664B357A18203           mpS65         A27EC68720F00A714AA2C45A7EF232286984D7B193F5C916           mpS66         AC8361676AB424E48F0789082B0CD2EFB8D2E627D041DD66           mpS67         ABA1BEB0064733A0620906BF2B29C95883F069D7E4C35D39           mpS68         9E22EEDED47D92CA1D0B7530EC6062287BD83A04874AE00C           mpS69         0BADEF288B20F5686C5DE3A71219AC2172054326BE831696           mpS70         953801EB2AF58C2F80E49A6CC46085CB554243E3B3BBEC8C           mpS71         333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484           mpS72         A6583E19647662005474153A6F8DD88A473853E94B720CE7           mpS73         90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8           mpS74         39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB           mpS75         F79525DE694629346D73F6256CC0F140F82603197AAA1844           mpS76         B8C2A8F139097699A693022E78588D4058DB0A65FF52F813           mpS77         449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS62</sub>	29186DE4CCAAB2CD0100BB19EA595879D63F0F0CFA881AA5
mps65         A27EC68720F00A714AA2C45A7EF232286984D7B193F5C916           mps66         AC8361676AB424E48F0789082B0CD2EFB8D2E627D041DD66           mps67         ABA1BEB0064733A0620906BF2B29C95883F069D7E4C35D39           mps68         9E22EEDED47D92CA1D0B7530EC6062287BD83A04874AE00C           mps69         0BADEF288B20F5686C5DE3A71219AC2172054326BE831696           mps70         953801EB2AF58C2F80E49A6CC46085CB554243E3B3BBEC8C           mps71         333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484           mps72         A6583E19647662005474153A6F8DD88A473853E94B720CE7           mps73         90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8           mps74         39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB           mps75         F79525DE694629346D73F6256CC0F140F82603197AAA1844           mps76         B8C2A8F139097699A693022E78588D4058DB0A65FF52F813           mps77         449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS63</sub>	A064B449CB784A91B803369CDC5EF61A670AAAC044BA3E68
m <sub>PS66</sub> AC8361676AB424E48F0789082B0CD2EFB8D2E627D041DD66           m <sub>PS67</sub> ABA1BEB0064733A0620906BF2B29C95883F069D7E4C35D39           m <sub>PS68</sub> 9E22EEDED47D92CA1D0B7530EC6062287BD83A04874AE00C           m <sub>PS69</sub> 0BADEF288B20F5686C5DE3A71219AC2172054326BE831696           m <sub>PS70</sub> 953801EB2AF58C2F80E49A6CC46085CB554243E3B3BBEC8C           m <sub>PS71</sub> 333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484           m <sub>PS72</sub> A6583E19647662005474153A6F8DD88A473853E94B720CE7           m <sub>PS73</sub> 90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8           m <sub>PS74</sub> 39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB           m <sub>PS75</sub> F79525DE694629346D73F6256CC0F140F82603197AAA1844           m <sub>PS76</sub> B8C2A8F139097699A693022E78588D4058DB0A65FF52F813           m <sub>PS77</sub> 449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS64</sub>	8719C454D88FF5149DB943CB6CADA01D0B9664B357A18203
m <sub>PS67</sub> ABA1BEB0064733A0620906BF2B29C95883F069D7E4C35D39           m <sub>PS68</sub> 9E22EEDED47D92CA1D0B7530EC6062287BD83A04874AE00C           m <sub>PS69</sub> 0BADEF288B20F5686C5DE3A71219AC2172054326BE831696           m <sub>PS70</sub> 953801EB2AF58C2F80E49A6CC46085CB554243E3B3BBEC8C           m <sub>PS71</sub> 333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484           m <sub>PS72</sub> A6583E19647662005474153A6F8DD88A473853E94B720CE7           m <sub>PS73</sub> 90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8           m <sub>PS74</sub> 39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB           m <sub>PS75</sub> F79525DE694629346D73F6256CC0F140F82603197AAA1844           m <sub>PS76</sub> B8C2A8F139097699A693022E78588D4058DB0A65FF52F813           m <sub>PS77</sub> 449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS65</sub>	A27EC68720F00A714AA2C45A7EF232286984D7B193F5C916
m <sub>PS68</sub> 9E22EEDED47D92CA1D0B7530EC6062287BD83A04874AE00C           m <sub>PS69</sub> 0BADEF288B20F5686C5DE3A71219AC2172054326BE831696           m <sub>PS70</sub> 953801EB2AF58C2F80E49A6CC46085CB554243E3B3BBEC8C           m <sub>PS71</sub> 333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484           m <sub>PS72</sub> A6583E19647662005474153A6F8DD88A473853E94B720CE7           m <sub>PS73</sub> 90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8           m <sub>PS74</sub> 39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB           m <sub>PS75</sub> F79525DE694629346D73F6256CC0F140F82603197AAA1844           m <sub>PS76</sub> B8C2A8F139097699A693022E78588D4058DB0A65FF52F813           m <sub>PS77</sub> 449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS66</sub>	AC8361676AB424E48F0789082B0CD2EFB8D2E627D041DD66
m <sub>PS69</sub> 0BADEF288B20F5686C5DE3A71219AC2172054326BE831696           m <sub>PS70</sub> 953801EB2AF58C2F80E49A6CC46085CB554243E3B3BBEC8C           m <sub>PS71</sub> 333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484           m <sub>PS72</sub> A6583E19647662005474153A6F8DD88A473853E94B720CE7           m <sub>PS73</sub> 90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8           m <sub>PS74</sub> 39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB           m <sub>PS75</sub> F79525DE694629346D73F6256CC0F140F82603197AAA1844           m <sub>PS76</sub> B8C2A8F139097699A693022E78588D4058DB0A65FF52F813           m <sub>PS77</sub> 449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS67</sub>	ABA1BEB0064733A0620906BF2B29C95883F069D7E4C35D39
m <sub>PS70</sub> 953801EB2AF58C2F80E49A6CC46085CB554243E3B3BBEC8C           m <sub>PS71</sub> 333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484           m <sub>PS72</sub> A6583E19647662005474153A6F8DD88A473853E94B720CE7           m <sub>PS73</sub> 90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8           m <sub>PS74</sub> 39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB           m <sub>PS75</sub> F79525DE694629346D73F6256CC0F140F82603197AAA1844           m <sub>PS76</sub> B8C2A8F139097699A693022E78588D4058DB0A65FF52F813           m <sub>PS77</sub> 449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS68</sub>	9E22EEDED47D92CA1D0B7530EC6062287BD83A04874AE00C
m <sub>PS71</sub> 333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484         m <sub>PS72</sub> A6583E19647662005474153A6F8DD88A473853E94B720CE7         m <sub>PS73</sub> 90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8         m <sub>PS74</sub> 39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB         m <sub>PS75</sub> F79525DE694629346D73F6256CC0F140F82603197AAA1844         m <sub>PS76</sub> B8C2A8F139097699A693022E78588D4058DB0A65FF52F813         m <sub>PS77</sub> 449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS69</sub>	0BADEF288B20F5686C5DE3A71219AC2172054326BE831696
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m <sub>PS73</sub> 90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8         m <sub>PS74</sub> 39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB         m <sub>PS75</sub> F79525DE694629346D73F6256CC0F140F82603197AAA1844         m <sub>PS76</sub> B8C2A8F139097699A693022E78588D4058DB0A65FF52F813         m <sub>PS77</sub> 449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS71</sub>	333A504C51C8FAC5025994565C3F600F154F64FAEF4EA484
m <sub>PS74</sub> 39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB         m <sub>PS75</sub> F79525DE694629346D73F6256CC0F140F82603197AAA1844         m <sub>PS76</sub> B8C2A8F139097699A693022E78588D4058DB0A65FF52F813         m <sub>PS77</sub> 449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS72</sub>	A6583E19647662005474153A6F8DD88A473853E94B720CE7
m <sub>PS75</sub> F79525DE694629346D73F6256CC0F140F82603197AAA1844           m <sub>PS76</sub> B8C2A8F139097699A693022E78588D4058DB0A65FF52F813           m <sub>PS77</sub> 449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS73</sub>	90ACAF707D18AF34F5848C58166830AF620ACDC1B2DFDDA8
m <sub>PS76</sub> B8C2A8F139097699A693022E78588D4058DB0A65FF52F813 m <sub>PS77</sub> 449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS74</sub>	39C5C598A374EA82F3F83378258248DAD3808812DD0E74BB
m <sub>PS77</sub> 449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890	m <sub>PS75</sub>	F79525DE694629346D73F6256CC0F140F82603197AAA1844
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m <sub>PS78</sub>   62CEC9574D30184BCB4F94EECF0CC23D2D2A8D0003F0AA33	m <sub>PS77</sub>	449B50C2A52996FA5A828A907F30F9F460EE3D99930DF890
1 1970   1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	m <sub>PS78</sub>	62CEC9574D30184BCB4F94EECF0CC23D2D2A8D0003F0AA33

m <sub>PS79</sub>	B56D258889703F76A0738EE3A7D355994159A4851833E198
m <sub>PS80</sub>	65894AA54C0F6C9A206521C9FC379A8AAF6E621C03CF849C
m <sub>PS81</sub>	2D47F3414E30CC02C6835D95C9BA204488F0FFCB4852677D
m <sub>PS82</sub>	12BE4DD8B906B584010F8A330AB67B278E8642FA33D51B68
m <sub>PS83</sub>	BC928A90A4B10906CAEE638BF768E08542F48F1676006DF0
m <sub>PS84</sub>	30C544E437C8ADA143566CD1BC4E9E7BA84139A08505C2F4
m <sub>PS85</sub>	84FD5B05506192B753FBA2C719B584E0EDA01814999867D2
m <sub>PS86</sub>	191F14DD00034E03AB5BB4342F1138B2CD33784E60CFD75A
m <sub>PS87</sub>	B8ACE7990B6A98A80A61162C4D2D5F88F24E8F7DE4207590
m <sub>PS88</sub>	EC1DBE72E8EED0C61054FC2695422AC0AD2D888265B21AB0
m <sub>PS89</sub>	9A1B4CA467AB7E082AF4278E44D177EA78424508C23E8B08
m <sub>PS90</sub>	999EE541C608164AC975214F3A37A677FC2CA03E2C2A4B20
m <sub>PS91</sub>	1BDCC20265031432917A2EB828FB356A22DF9CB609C0F8F3
m <sub>PS92</sub>	EB4A81859C93338B8A1B87C02C815AE09D765F6F2249B958
m <sub>PS93</sub>	E6A5D1629F4CF09A1F280DE0C480D4C73B26ADE321A50AEE
m <sub>PS94</sub>	BAAB7286DD24C80B15A7958039B904F1CA83C310C8C7AFF2
m <sub>PS95</sub>	12220F72619E983717C68FFE1C4148F2354B7B1955B65620
m <sub>PS96</sub>	A198706E24FAA08BD09EE392414816038E667BB34307D6B2
m <sub>PS97</sub>	30B3493B4C035881A7A722E4546527AAE787FA2C0893AC46
m <sub>PS98</sub>	5A7318126522843DCB7F00A2D9F9BA8F88963E4152BC923C
m <sub>PS99</sub>	844844B0CACAB702C332CE2692B4166F4B0C63E62BF151BF
m <sub>PS100</sub>	B8297389526410313692F861DC60DA86A23607F7DDE24755
m <sub>PS101</sub>	6C1144CF8BC01538D655D29ED62DE6E74A3180EC905BF1E0
m <sub>PS102</sub>	E9DB3221FACFC5C88691A7013EF09672A130D52C3413AAE2
m <sub>PS103</sub>	2FD0508615EC4CD4BF18ADD46D777078869130C8921A4F0E
m <sub>PS104</sub>	40911B4E0525AC874228F6EF642E59154730CB187C7E417A
m <sub>PS105</sub>	2034C6A027D4D850F5184AA64C3153231F4651B616BBFCF9
m <sub>PS106</sub>	57833235451525A1DFA213FCE0B419B6494BC7B99F488410
m <sub>PS107</sub>	6DC3D57F2E39158D036825F8804810D77CA1ECA610ECD894
m <sub>PS108</sub>	F5C50DE43AA7B731CAB7683524021701F97650499A7070E4
m <sub>PS109</sub>	F2184D2699785442E09FA22CC2D60A5A13FFF22AE660A470
m <sub>PS110</sub>	EF0029DE0D79207205458CF4D7328E81A93518D93C9A74BD
m <sub>PS111</sub>	9D6D8992482FB885AA5E878C3BA2045538B09886C23CDC2D
m <sub>PS112</sub>	C0A5AB67D1CEA126F6476C75443F0A11CBE749412EF03104
m <sub>PS113</sub>	1853A5C20CDF968C5A180D8EB5E72BF15517D06680D98412
m <sub>PS114</sub>	8CEA1223227ADF37D0DAAB320906E1C79029F480D25181A7
m <sub>PS115</sub>	5561038E96A658EF3EC665612FF92B064065D1ACC1F54812
m <sub>PS116</sub>	C55A6263F08D664A1E53584560DFF5E611640D8281D9A843
m <sub>PS117</sub>	4386A8EA59124D043F29056A4598735A4FC7BC11119B90C1
m <sub>PS118</sub>	D6571B20668BED50BD7C80388C162632BCB069AA67C7FC22
m <sub>PS119</sub>	4F9F09ABBC1391EC2CCA5359FB52250E533BF04324154106
m <sub>PS120</sub>	662659F42188C9453F6E6DF00C579627045DA1461A3A0EA5
m <sub>PS121</sub>	8DCC9274C0C2A9BA6096BF27FACA542CD01CA8653D60A80F
m <sub>PS122</sub>	5C1210A1E50E505F6B73C90156C9D9F19AE2310BBD820DF0
1	

m <sub>PS123</sub>	B1E0A7CE26202E223D4FC06D5C9BBA4E5F6D98204D2D5286
m <sub>PS124</sub>	DB506776958E34552F7E60E4B400D836153218F918E22FA6
m <sub>PS125</sub>	ECAA60300439B2360B2AC3C43FB6241ACDE5055B295FA71C
m <sub>PS126</sub>	BF1E6D9AA9CA4AC092BE60500C77D0DC7A6A236520F86722
m <sub>PS127</sub>	051C5FA122845A30B4EC306B38016B45667C7754F92F13A0

## Annex B (Informative)

#### B.1 CCPCH Multiframe Structure

In the following figures B.1 to B.3 some examples for Multiframe Structures on CCPCH are given. The figures show the placement of Common Transport Channels on the Common Control Physical Channel. Especially those CCPCH containing the BCH are depicted. Additional CCPCH capacity can be allocated on other codes and timeslots of course, e.g. FACH capacity is related to overall cell capacity and can be configured according to the actual needs. Channel capacities in the annex are derived using bursts with short midambles (Burst format 2). Every TrCH-box in the figures is assumed to be valid for two frames (see row 'Frame #'), i.e. the transport channels in CCPCH have an interleaving time of 20msec.

The figures B.1 to B.3 as given below are considered for case 2) of Physical Synchronisation Channel (PSCH), cf. section 5.4. In this case CCPCH is to be transmitted in timeslots k and k+8. The BCH is split on those timeslots k and k+8 in a redundant way, thus a UE can collect the BCH information even if one of both slots is interfered.

The actual CCPCH Multiframe Scheme used in the cell is described and broadcast on Primary BCH. Thus the system information structure has its roots in this particular transport channel and allocations of other Common Channels can be handled this way, i.e. by pointing from primary BCH.

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Physical channels... (TDD)

Figure B.1: Example for a multiframe structure for DL-CCPCH.

Frame #	0	2	4	6	8	10 11	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70
	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	41	53	55	57	59	61	63	65	67	69	71
CCPCH in TS k, Code 0																																				
CCPCH in TS k, Code n																																				
CCPCH in TS k+8, Co 0																																				
Primary BCH 3,07 kb	os			Se	con	dar	/ BC	H 3	3,07	kb	ps			PCH	1 18	3,4k	bps	;				F	AC	H 5	8,3l	(bp:	S									

Figure B.2: Example for a multiframe structure for DL-CCPCH. n=1...7

Frame #	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42 43	44	46	48	50	52	54	56	58	60	62	64	66	68	70
	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	41	53	55	57	59	61	63	65	67	69	71
CCPCH in TS k, Code 0																																				
CCPCH in TS k+8, Co 0																																				
Primary BCH 3,07 kb	os			Se	con	darv	/ B0	CH ·	1.53	3 kb	ps			PCI	H 18	3.4k	bps	;				F	AC	H 3	2.2	kbp	s									

Figure B.3: Example for a multiframe structure for DL-CCPCH.

# **History**

		Document history
v0.0.1	1999-01-29	Document created based on the documents UMTS (xx.09) V 1.2.0 and ARIB Volume 3 Ver.1.0
v0.0.2 (v0.1.0)	1999-02-23	Document updated based on the TRGR1 #2(99) 115 which was agreed in the TSG RAN WG1#2 meeting, Yokohama, Feb.23,1999. The usage of ODMA is still under study.
v0.1.1	1999-02-26	Small changes ( Modification of the editorial errors)
v0.1.2	1999-03-11	Small changes ( Modification of the editorial errors)
v1.1.0	1999-04-6	Small changes ( Modification of the editorial errors)
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V1.1.0	1999-06-4	Document updated based on the TSG RAN WG1#5 meeting, Cheju, June 4,1999.
V1.1.1	1999-07-6	TS25.221 V1.0.1 was not updated completely based on TSG RAN WG1#3 meeting, Nynäshamn, March 22-26 1999. So update the document again.
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