**Proposal 1.E.1**: On the Type-II codebook refinement for CJT mTRP, the resulting codebook(s) are associated with *at least* the following parameters:

* + Parameters for basis reporting, including
    - The number of basis vectors: gNB-configured via higher-layer signaling
      * FFS: Whether it is layer-common or layer-specific, whether it is per TRP/TRP-group or common for all TRPs
    - Basis selection indicator(s): a part of CSI report
      * FFS: Whether it is layer-common or layer-specific, whether it is per TRP/TRP-group or common for all TRPs
  + Quantized combining coefficients (W2): a part of CSI report
    - FFS: details of quantization scheme
  + Number of non-zero coefficients and bitmap to indicate non-zero coefficients, including whether it is per TRP/TRP-group (separate) or across all TRPs/TRP-groups (joint): a part of CSI report
  + Strongest coefficient indicator(s) (SCI(s)): a part of CSI report
    - FFS: One per TRP/TRP-group or common for all TRPs
    - FFS: Additional need for strongest TRP indicator

**Proposal 1.E.2**: For the Type-II codebook refinement for CJT mTRP, further study the following issues:

* The need for the following additional parameters:
  + Receiver side information by per RX reporting or per layer, e.g. information related to the left singular matrix U of the channel
  + Indication of relative offset of reference FD basis per TRP with respect to a reference TRP
  + Information related to the windows for FD basis
  + Delay/frequency difference(s) across TRPs
* Specification entity corresponding to a TRP (e.g. port-group, NZP CSI-RS resource)
* For codebooks with per-TRP/TRP-group SD/FD basis (structure Alt1A/1B), whether to support co-amplitude/phase as a part of CSI report (explicit) or not (implicit)
* Design details of reference amplitudes and differential amplitudes in W2:
* Whether/how supported parameter combinations are refined from Rel-16/17

**Proposal 1.F**: On the Type-II codebook refinement for CJT mTRP, down-select from the following TRP selection/determination schemes (where N is the number of cooperating TRPs assumed in PMI reporting):

* + Alt1. N is gNB-configured via higher-layer (RRC) signaling
    - The N configured TRPs are gNB-configured via higher-layer (RRC) signaling
    - Note: only one transmission hypothesis is reported
  + Alt2. N is UE-selected and reported as a part of CSI report where N{1,..., NTRP}
    - N is the number of cooperating TRPs, while NTRP is the maximum number of cooperating TRPs configured by gNB
    - In this case, the selection of N out of NTRP TRPs is also reported (FFS: exact reporting scheme)
    - FFS: Configuration of NTRP TRPs and the value of NTRP, whether explicit or implicit
    - FFS: In addition to one transmission hypothesis, whether reporting multiple transmission hypotheses (with the same N value or possibly different N values) is supported
  + Alt3. The UE reports CSI corresponding to K transmission hypotheses
    - The N configured TRPs are gNB-configured via higher-layer (RRC) signaling
    - FFS: supported value(s) of K, and whether the K transmission hypotheses are gNB-configured or UE-reported

**Proposal 2.E.1**: On the Type-II codebook refinement for high/medium velocities, for codebook structures with TD or DD basis (Alt1 or Alt2 from codebook structure agreement), the codebook(s) include *at least* the following *additional* codebook parameters:

* Doppler-/time-domain (DD/TD) basis vector length
* Parameters for DD/TD basis vector selection, including
  + The number of DD/TD basis vectors
  + If applicable, Basis selection indicator(s)
    - FFS: restrictions on the basis vector selection
  + If applicable, the total number of available DD/TD basis vectors (not needed for orthogonal DFT basis set), whether explicitly or implied from another parameter (e.g. oversampling factor)

**Proposal 2.E.2**: For the Type-II codebook refinement for high/medium velocities, further study the following issues:

* The need for basis type indicator, if both a trivial basis (e.g. identity) and a non-trivial (e.g. DFT) basis are supported, and if so, whether implicit or explicit
* The need for DD/TD (compression) unit (analogous to PMI sub-band for Rel-16 codebook)

**Proposal 2.F**: On potential refinement of Resource setting configuration associated with Type-II codebook refinement for high/medium velocities, study the following options to assess whether/how the legacy Resource setting configuration needs to be enhanced for “burst” measurement:

* Periodic (P) CSI-RS: periodicity and offset
* Semi-persistent (SP) CSI-RS: activation/deactivation, periodicity, and offset
* Aperiodic (AP) CSI-RS: triggering, offset of a group of AP CSI-RS resources

FFS: Support for K>1 NZP CSI-RS resources association with Type-II codebook refinement for high/medium velocities

FFS: Whether specification support for jointly utilizing two types of CSI-RS time-domain behaviors is needed

**Proposal 3.D**: The TRS-based TDCP reporting is down selected from the following alternatives:

* Alt1 (stand-alone): TDCP reporting comprises auxiliary feedback information to enable refinement of CSI reporting configuration, and/or codebook configuration parameters, and/or (to be confirmed in RAN1#110) gNB-side CSI prediction
  + Aperiodic reporting is supported
  + FFS: Whether periodic, semi-persistent and/or event-triggered (UE-initiated) reporting are supported
* Alt2 (non-stand-alone): TDCP reporting corresponds to a subset of the UCI parameters associated with a codebook/PMI for high/medium velocities, reported by the UE and measured via TRS
  + FFS: The associated codebook(s)/PMI(s)