The D1-DFX Connection Module (DCM) in WP3

E. Todesco, Y. Leclercq

DCM review – 15 April 2021
THE DCM IN WP3

- The DCM is the D1-DFX connection module containing the lambda plate for the transition between 1.9 K and 4.5 K
  - See EDMS 2210558 – can be seen as an ECR or as a clarification of the baseline
  - Long module (8 m), containing since 2018 also the diode stack
UNITS NEEDED AND TIMELINE

- Y. Leclercq is in charge of the DCM for WP3
- Units:
  - Four for the tunnel installation, one prototype to be used in the string and as spare
- Timeline:
  - First unit needed in the string in second half of 2022
  - Other four units for installation in 2025
- Hypotheses:
  - Construction of other units after the validation of the prototype with standalone tests (not needed to wait for string)
  - Easier for keeping continuity in the production, but stringent test should be considered
- Masterplan will be updated in May accounting for the review results and for the round busbar cable tender
ORGANIZATION OF THE ACTIVITIES

- Structure of the review
  - Functional specifications (Y. Leclercq)
  - Work break down structure (F. Crisci)
  - Aspects related to the transport and integration (P. Fessia)

- Engineering design (Y Leclercq)
- MIP (F. Crisci)
- Prototyping and production (F. Savary)
- Diodes (G. D’Angelo)