

# *Discussion and open points*

- **Looking back at the Hardware commissioning & Magnet training (A. Apollonio):**
  - More than 29000 tests of magnets in the hardware commissioning
    - Nonconformities found on magnets
      - No major limitation for the operation of Run 3
  - Management of ventilation doors may need to be reviewed, as they are often left open with a significant impact on powering tests
- **Results and lessons learned from the 2021 beam test (M. Hostettler):**
  - Beam test was a very valuable experience:
    - Inversion of RQTL7.R3 B1/B2 was discovered
      - Fixed by swapping the links in LSA
    - TI8 ring cross talk when injecting Beam 2.
      - "Pulsing" during SPS cycle since LS2 due to dynamic destination economy mode
      - Solved by reverting back to DC mode
  - Present COVID restrictions require precise organisation and remove the possibility to properly teach new comers in various teams, but it worked
    - It cannot be avoided to have from 3 to 5 EiC plus coordinators over a day in the LHC island, thus a positive test in the OP-team could have a significant impact on LHC operations in 2022

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- **Status of the Maintenance Period and Plans for the YETS (M. Bernardini):**
  - Technical stop is not strictly necessary before summer, but has been requested by experiments. EN-ACE is collecting all other requests and will finalised for Chamonix
  - The BLM validation plan rely on battery but it would be useful to use the TIM as much as possible for its development, to be revised with new timeline as it requires strict conditions on patrols and might become tight with reviewed schedule
- **The Injectors: What to expect when (A. Huschauer):**
  - Remarkable progress of the performance of the injector chain in 2021
  - The standard 48b has been studied in more detail than the BCMS
    - For 2022 both should be available
    - If BCMS or the standard should be the main focus was extensively discussed
      - BCMS show smaller emittance but the standard is also needed for scrubbing runs
      - There was a consensus that switching between the bunch types from the LHC point of view is fairly transparent