



# rMPP comments on MDs

M. Solfaroli Camillocci, C. Hernalsteens, J. Uythoven, C. Wiesner, D. Wollmann  
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# Comments and Questions to MD Procedures

- **MD9325 Beam halo population**
  - Clarify beam type (8b4e?)
- **MD11843: Collimation performance with HL-LHC settings**
  - Provide details of collimator settings
- **MD6925: Electron cloud coupled-bunch tune shifts at injection**
  - Number of bunches above  $1.8e11$  ppb to be limited to 385 bunches (LHC limit)
  - Injection limited to maximum of 2 x 48 bunches of  $2.3e11$  ppb (SPS limit)
- **MD12743: RF power limitations for high-intensity batches**
  - Stay within SPS limits of 2 x 48 bunches of  $2.3e11$  ppb and LHC limit
    - In case of ramp: ensure dump at 500 GeV
  - Above 500 GeV: limit to  $1.8e11$  ppb for 684 bunches
- **MD12805: Impact of longitudinal impedance and betatron coupling on the Schottky spectrum**
  - Bunch intensity to be specified. For individual bunches limit to  $\leq 2.4$  ppb, to be specified in the procedure.
  - OK for max. 2 bunches of  $2.4e11$  and bunch length shorter than 1.2 ns.