Brain storming on 2018 MD proposals

- Validate HL-LHC configuration (and anticipate it for run 3 ?) :

    - Long-range + negative octupole polarity ($\rightarrow$ octupole threshold measurement with reduced crossing angle, BTFs, AC dipole with long-range interactions)

    - RATS (operational validation of the procedure)

    - ...

- Improvement of the LHC stability model :

    - Puzzles leftover (B1H, train instability, interplay with lattice non-linearities, ...)

    - Stability with low Q', for different ADT gains ($\rightarrow$ destabilising effect of the damper)

    - Optimisation of the ADT phase (resistive / reactive) ?

    - ...

- Beam quality preservation :

    - Parameter optimisation at injection (Q, Q', Q''?, octupole current, ADT gain) $\rightarrow$ commissioning time ?

    - Identification of noise sources (Collision of high brightness bunches before and after the squeeze with and w/o telescoped optics)

    - Stability with reduced bandwidth / increased ADT gain in collision

    - ...