

## **Electron cloud and scrubbing**

In order to routinely operate the LHC with 25 ns bunch spacing during Run 2, electron cloud (EC) effects will have to be mitigated through beam induced scrubbing.

Therefore, the Run 1 experience with 25 ns beams will be reviewed and used for defining the most effective scrubbing strategy. In particular, the potential of using a dedicated scrubbing scheme based on the “doublet” beam, following the promising SPS tests in 2012, will be described and analysed. The impact of this scheme on the LHC equipments and machine protection will be discussed. The different stages of the scrubbing process, including the high energy tests, will be outlined in terms of beam requirements and expected duration. To conclude, possible alternatives of post-scrubbing scenarios will be also considered, which will depend on the degree of success of the scrubbing run.