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## How to reach the required availability of LHC to reach the required level? (20' + 10')

*Wednesday 30 October 2013 17:00 (30 minutes)*

### Abstract:

The HL-LHC has ambitious integrated luminosity goals in the region of 250 inverse femtobarn per year. This level of performance will require excellent machine availability.

After a definition of terms and assumptions, the availability to date is reviewed while noting the importance of accurate and reliable tracking. The present consolidation strategy is outlined and the potential benefits highlighted. Other possible areas of improvement and future challenges which could impact the overall availability are then discussed. Estimates based on extrapolation from present experience are given. Injector availability will also be important for the overall LHC performance and the need for sustained, well-planned consolidation is recalled.

**Presenter:** LAMONT, Mike (CERN)

**Session Classification:** Session 4 - Upgrade scenario 2 (decoupled from scenario 1)