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## Performance reach of LHC after LS1

*Thursday 9 February 2012 08:55 (20 minutes)*

Based on past experience (2010/2011), in particular expected limitations from beam-beam effects, and taking into account the expected beam quality from the LHC injectors, the peak and integrated luminosities at top energy are discussed for different scenarios (e.g. bunch spacing,  $\beta^*$ ). In particular it will be shown which are the key parameters to reach the nominal luminosity and whether it is possible to exceed the nominal luminosity. Possible test in 2012 are discussed.

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**Session Classification:** S07 - After LS1