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## HL-LHC: parameter space, constraints and possible options.

Thursday, 27 January 2011 18:00 (25 minutes)

Which are the most promising ingredients to boost the LHC integrated luminosity, including smaller beta\*, higher beam intensity, crab crossing, large Piwinski angle, flat longitudinal profile, and variations of bunch length, transverse emittance, crossing angle, and bunch spacing? How do the various ingredients conspire or compete? How do they pose different requirements on new LHC hardware and on the beams from the injectors? Which is their relative importance? What are the proposed roadmap and branching points in the research for a solution?

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Session Classification: Session 08 High Luminosity (HL-LHC)