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## HL-LHC: How to achieve Upgrade Scenario 1 goals in the LHC? (20' + 10')

*Wednesday 30 October 2013 10:30 (30 minutes)*

**Abstract:**

The presentation discusses the options for maximizing the performance reach of a limited HL-LHC upgrade scenario and for reaching the performance goals of the Upgrade Scenario 1 based on Performance Improving Consolidation (PIC) (e.g. new triplet magnets) and only moderate upgrade implementations (e.g. Long Range Beam-Beam Wire compensators and Higher Harmonic RF system but no Crab Cavity system). The presentation will summarize the required key beam parameters and performance issues (e.g. required machine efficiency and run scheduling), discuss the cost and calendar implications for the Upgrade Scenario 1 option and discuss the trade-off between different upgrade options (e.g. Long Range Beam-Beam Wire compensators and Higher Harmonic RF system).

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**Session Classification:** Session 3: PICs and Upgrade scenario 1 - Session 3B - Upgrade scenario

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