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## Crab Cavities

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With lower betas or longer bunches, luminosity loss due to the crossing angle becomes important. Crab cavities could minimize the loss. What are the scenarios for a crab cavity implementation in the LHC, the expected performance gain, hardware implications, R&D plan, the open questions (noise, machine protection, impedance?), issues with space for crab cavities and the auxiliary equipment (e.g. klystrons) close to IP1/5 and in IR4, and a possible schedule.

**Presenter:** CALAGA, Rama

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