

LHCb upgrade

Sunday, 2 November 2025 09:20 (25 minutes)

This talk presents the LHCb Upgrade project and the progress achieved in the past year. We will focus on the pivotal contributions from Chinese institutes, which are spearheading the development of core sub-detectors. These include a next-generation Ring-Imaging Cherenkov (RICH) system, a high-granularity Scintillating Fibre tracker, and a novel precision timing detector. Furthermore, Chinese groups are leading critical work on the front-end electronics and trigger systems essential for handling the extreme data environment of the HL-LHC. The status and timeline of the project will be summarized, highlighting how these efforts are fundamental to securing the future of precision heavy-flavor physics at LHCb.

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