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R2E in HL-LHC context

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The High Luminosity Upgrade of the LHC aims at enabling the goal of collecting 10 times the integrated luminosity compared to the first decade of the LHC lifetime. For this reason and based on prior experience in the LHC, the design of the HL-LHC machine, its equipment systems as well as its operational procedures have been done considering R2E as one of the fundamental constraints to be considered. This contribution outlines the main goals and challenges of the HL-LHC project and the employed strategies to minimize machine downtime due to R2E effects.

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