

## Physics Potential of the LHC Upgrades

*Friday 25 May 2018 15:30 (30 minutes)*

The luminosity upgrade of the LHC (HL-LHC) is being actively pursued with the targeted integrated luminosity of  $3 \text{ ab}^{-1}$  by the year of 2037. There has been increasing interest to upgrade the energy of the LHC (HE-LHC) to about a c.m. energy of 27 TeV by doubling the magnetic field in the same tunnel, which is part of the effort of the European Strategy of Particle Physics led by CERN. I present a few well-motivated case studies to demonstrate the physics potential of the HE-LHC, in comparison with the HL-LHC expectations.

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