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Introduction to the LHC and CMS

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The LHC is the world's highest energy proton-proton collider with a center-of-mass energy of 13 TeV. The world's largest machine is currently running at twice its designed luminosity and represents the forefront of the energy frontier. The CMS detector is a multipurpose detector that features a 4 Tesla magnet and over a 100 million active channels taking data every 25 ns. It, along with its sister experiment ATLAS, is measuring the precise properties of the recently discovered Higgs boson, and leading the search for new and exciting physics: such as supersymmetry, dark matter, and extra dimensions.

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