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The LHC is the largest and most powerful particle accelerator ever built. It is a circular tunnel, 27 kilometers in circumference, located in the French-Swiss border. The LHC is designed to collide protons at a center-of-mass energy of 14 TeV. The collisions are detected by four large experiments: ATLAS, CMS, LHCb, and ALICE. The LHC is the first machine to reach the energy frontier of 14 TeV. It is also the first machine to collide protons. The LHC is the first machine to collide protons at a center-of-mass energy of 14 TeV. It is also the first machine to collide protons.

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