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Status of the polarized gas target for the LHCspin project

LHC at CERN is the world's highest energy collider, but it cannot accelerate polarized protons like BNL's RHIC. The LHCspin project will install a polarized hydrogen gas target in one of the accelerator rings of the LHC and use a 7 TeV proton beam and the polarized target to advance research into nucleon spin structure. In the first step, the polarized gas target and a simple particle detector will be installed at a location different from the collision point of existing experiments at the LHC, and basic polarization experiments will be performed. In the second step, the polarized gas target will be incorporated into the LHCb detector and precise polarization experiments will be performed.

The development of the polarized gas target is important for the project. Here I will show the status of the polarized target.

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