High Energy Physics - Experiment

Precision Physics with Low-energy Antiprotons -from AD to FLAIR

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Experiments with low-energy antiprotons are currently performed at the Antiproton Decelerator of CERN. The main experiments deal with the spectroscopy of antiprotonic helium, an exotic three-body system, and the formation and spectroscopy of antihydrogen. A next generation facility FLAIR (Facility for Low-energy Antiproton Rsearch) is planned at the FAIR facility, generating a factor 100 higher flux of stopped antiprotons and also offering continuous antiprotons beam, which will enable nuclear and particle physics type experiments.

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