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Antiprotons at CERN

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During more than 10 years of regular operation, CERN's Antiproton Decelerator (AD) has supplied the successful physics program with low-energy antiproton beams at 5.3 MeV kinetic energy. For the medium and long-term future, several options exist for upgrades and consolidation of the facility as well as for extension of the physics program. One of these, the recently approved ELENA ring, is a small post-decelerator to be installed in the existing AD building. ELENA will bring the antiproton energy down to around 100keV and with the help of the built-in electron cooler greatly increase beam density and intensity thereby increasing the number of trapped antiprotons by up to two orders of magnitude.

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