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Antiproton accumulation and cooling at Fermilab's Recycler ring

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A permanent –magnet, 3.3 km 8 GeV Recycler ring is used to accumulate antiprotons and prepare them for Tevatron shots. Two cooling systems, stochastic and electron, allows increasing of the antiproton phase density by a factor of ˜ 50 and storing up to 5⊠1012 antiprotons with the storage efficiency above 90%. The paper will describe the status of the Recycler ring and its operation.

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