



ID contributo: 16

Tipo: **Parallel Contribution**

Spin Filtering Experiment at COSY - First results

martedì 11 ottobre 2011 09:00 (25 minuti)

A stored polarized antiproton beam opens a wide area of new physical investigations. Even though there were several topical conferences since the 1980s, no method to provide a stored polarized antiproton beam could be established up to now. The PAX-Collaboration is investigating the method of spin filtering. A stored beam traverses a polarized gas target and builds up polarization by spin dependent attenuation. This method has been proven to work with protons at the Heidelberg TSR in 1992. In August/September 2011 the spin filtering method is repeated at Jülich COSY to commission the setup and detection system for a later first spin filtering experiment with antiprotons at the CERN-AD. The spin filtering method and first results of the COSY experiment will be presented.

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Classifica Sessioni: Nuclear Physics II

Classificazione della track: Nuclear Physics