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Crystal collimation of hadron beam at CERN, the UA9 experiment

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Hadron collider collimation is now a big challenge in view of the future increase of beam currents at LHC. A description of the UA9 experiment at CERN SPS is reported. Its main aim is to demonstrate the feasibility of a new concept of collimation based on a bent crystal able to clean the dangerous beam halo via the crystal channeling effect. Data from tests performed on SPS will be discussed showing how the technology is very close to be implemented in LHC.

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