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【385】The SHiP-Charm Experiment

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The SHiP experiment is a beam dump experiment proposed at the CERN SPS aiming at the observation of long lived particles very weakly coupled with matter and at the study of tau-neutrino properties. Hidden particles are mostly produced in the decay of charmed hadrons and tau neutrinos are produced by Ds decays, therefore measuring charm production cross-sections from 400 GeV protons is critical for the SHiP experiment. This poster will report on the dedicated experiment proposed to measure different characteristics of charmed hadronic production in a SHiP-like target and on the ongoing analysis of the optimization run which was conducted in July 2018.

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