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Silicon Pixel Detector Development for Director Measurement of Charm Baryon Dipole Moments at LHC

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TWOCRIST is a proof-of-principle test in Run3 for the proposed ALADDIN experiment, for the direct measurement the dipole moments of charm baryons at LHC. A silicon pixel detector for the measurement of signal charm baryons is under construction. It is based on the LHCb VELO pixel sensors and readout system and it will work in the secondary vacuum of a Roman Pot, positioned inside the LHC beam pipe. The design and integration of the pixel detector within the Roman Pot will be discussed, as well as the expected performance.

Primary author: ZANGARI, Federico (Istituto Nazionale di Fisica Nucleare)

Presenter: ZANGARI, Federico (Istituto Nazionale di Fisica Nucleare)

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