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Status and Performance of the Diamond-Pixel Based CMS PLT Luminosity Monitor

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The Pixel Luminosity Telescope (PLT) is a compact single-crystal diamond pixel based tracking detector. The PLT is designed to measure both the instantaneous luminosity and the relative bunch-to-bunch luminosity with high precision and speed at CMS at the much higher instantaneous luminosities the LHC will provide starting in 2015. One quarter of the full detector has been installed in a forward region of CMS as a preliminary test during the 2012 running. We will show the design capabilities of the PLT as well as results from recent test beams and from LHC collision data.

for the collaboration

CMS

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