



Pixel Telescope to test pixel Phase II ROCs and sensors

Saturday, August 6, 2016 6:00 PM (2 hours)

In 2023, the LHC will be upgraded to the HL-LHC, increasing the luminosity to $5 \times 10^{34} \text{ cm}^{-2} \text{ s}^{-1}$. The increased luminosity will present new challenges in higher data rates and increased radiation. The CMS Phase 2 Pixel upgrade will require a high bandwidth readout system and high radiation tolerance for sensors and on-detector ASICs. Several geometries for the upgrade sensors are being considered as well as new layout geometries that include very forward pixel discs. To test these designs we build a pixel telescope for test beams. Prospective designs for the pixel telescope will be presented.

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