

CMS Silicon Strips alignment and monitoring with the Laser Alignment System

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The alignment of the CMS Silicon Strips detector can be monitored using its built in Laser Alignment System. The 32 Laser beams in each endcap and the 8 Laser beams connecting the barrel and the endcap regions make it possible to monitor the alignment changes to a precision better than 10 μm and the measurement of the absolute alignment parameters better than 100 μm .

For this, 434 of the Silicon Strips modules (3%) are illuminated by the laser beams, assuring a continuous surveillance during the collisions and cosmics data taking. In this contribution the status and the preliminary results of monitoring and alignment parameters during the 2011 LHC data taking period are presented.

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