

Full-size sensor prototypes for the Phase II Upgrade of the CMS Tracker

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The CMS Tracker Collaboration has designed and procured test-structures and full-size silicon strip sensor prototypes from several vendors. These productions are intended for evaluating the production quality of the manufacturers, for providing functional sensors for module prototypes and for concluding the survey towards a suitable silicon base material and sensor design. We provide an overview of the main results of the strip sensor R&D group and present first results of the recent sensor qualifications. This includes results from the first AC coupled strip sensors on 8" wafers.

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