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CMS Pixel Phase I Upgrade

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The Phase I Upgrade of the CMS pixel detector includes changes in the readout electronics, the geometry of the detector and the cooling system. Each of these aspects will be summarized in this talk and the resulting improvements in physics performance discussed. Changes in the readout chip and the resulting performance will be highlighted. Ongoing work anticipating the production of the detector elements (pixel modules) including a pre-production of a limited amount of modules and the assessment of their performance and quality will be given in this talk.

Author: ELLER, Philipp David (Eidgenoessische Tech. Hochschule Zuerich (CH))

Presenter: ELLER, Philipp David (Eidgenoessische Tech. Hochschule Zuerich (CH))

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