



Contribution ID: 85

Type: **review talk**

Ultra-light mechanical supports for pixel modules

Pixel detectors of the past decade were typically 2.0% X_0 per layer. Intense R&D efforts over the past few years have brought this down to under 1.0% per layer for hybrid pixels despite an increase in their power density; detectors using MAPS, with their lower power densities are capable of 0.3% X_0 for inner most layers. A survey of hybrid and monolithic pixel supports from recent and near future detectors will be presented as well as the R&D efforts into materials and fabrication techniques allowing them to achieve this new regime of mass reduction.

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