



Contribution ID: 18

Type: **Oral presentation**

Development of Silicon Interposers

Thursday 4 February 2010 08:55 (20 minutes)

We report on fabrication of prototype silicon interposers for coupling pixel detectors in high energy physics experiments. The interposers feature a high density of conductive through-vias with additional mass reduction achieved by etching large voids in the silicon where possible. We report results of electrical and mechanical evaluations of the devices.

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Session Classification: Development of specific components, for example low mass interposers

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