

International Workshop on Semiconductor Pixel Detectors for Particles and Imaging (PIXEL2012)

Contribution ID: 73

Type: **ORAL**

3D Electronics for Tracking Triggers

Wednesday 5 September 2012 09:40 (20 minutes)

We describe our current efforts in sensor/electronics integration, including 3D and SOI devices. Application of these technologies to track triggers for CMS and Atlas as well as x-ray imaging will be described. A central question is whether these technologies will be sufficiently affordable with high enough yield to build large area modules such as those required for CMS. We will discuss the development “active tiles” which combine 3D and active edge technologies as a possible solution to the yield problem. Such building blocks would enable the fabrication of fully active pixelated large area arrays.

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Session Classification: Session5

Track Classification: Front end electronics and readout - 3D interconnection