

SiD Si Sensor Update

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- Beamtest showed crosstalk issues in both sensor and KPiX
- KPiX problems ~understood; new design exists; has not been built
- New sensor was designed using Metal 1 as shield layer.
 - Produced sensors, IZM bump bonded KPiX.
 - Designed new cable at SLAC, several versions in steps towards a new approach for final calorimeter.
 - 4 sensors have new cables.
 - Lost one sensor due to mishandling
 - One sensor now in transit to DESY
 - 3 sensors calibrate ok but noise seems significantly larger than before. Strange, because we think pixel capacitance should be less.

- Original sensors could not be wirebonded (for cable connection) due to processing fault at Hama.
- Hama built new sensors, and IZM has bumpbonded KPiX to them.
- Cables (basically from long ago) have been glued and wirebonded to several sensors.
- Testing underway at DESY.
 - Need to understand S/N
- See Uwe's Talk.