

## **GridPix detectors: A high resolution gaseous detector for many applications**

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GridPix detectors are a new combination of a highly pixelated readout ASIC with a Micromegas grid tailored to the pixel array of the ASIC by means of photolithographic postprocessing techniques. This combination assures a high granularity and allows the detection of single primary electrons with high detection efficiency. The combination of both features leads to a good spatial and energy resolution, which can be exploited in both tracking and low energy X-ray applications.

In this presentation the working principle, production and some applications will be presented. A special focus will be on the two applications pursued in Bonn: The use of GridPix detectors as a readout of the ILD TPC and as X-ray detectors in the CAST experiment.