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Micro Pattern Gas Detectors in High Energy Physics

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Micro-pattern gas detectors are used for an increasingly wide range of detector applications in particle physics. Both GEM based detectors and Micromegas based detectors are being studied. Several new production techniques in particular for Micromegas detectors have recently been announced.
In this talk the state of the different technologies will be discussed, together with a review of their current and planned applications. Both the traditional readout of GEM or Micromegas using a pad plane as well as the novel combination of a Micro pattern gas detector with a silicon pixel readout will be presented.

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