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Pixel Detectors for Charged Particles

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Pixel Detectors as the current technology of choice for the innermost vertex detection have now reached a stage where large detectors have been built for the LHC experiments and a new era of developments, both for hybrid and for monolithic and semi-monolithic pixel detectors is in full swing. This is largely driven by the requirements of the Super-LHC and by collider experiments which plan to use monolithic pixel detectors for the first time such as STAR at RHIC and Super-BELLE. The talk will give an overview over current developments on hybrid pixel detectors as well as on so-called active pixel detectors for particle tracking and vertexing including MAPS and DEPFET pixels.

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