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The Belle II PXD

The Belle II experiment will be the next generation B-factory, and will operate at an peak instantaneous luminosity, $8.0 \times 10^{35} \text{ cm}^{-2} \text{ s}^{-1}$, 40 times higher than its predecessor, Belle, allowing for precision measurements of the standard model. At its center will lie two layers of DEPFET based pixel detectors, each 75 microns thick to minimize multiple scattering of charged particles and designed to operate at a high radiation environment. Together with four layers of silicon strip detectors, it is expected to provide a resolution of 15 microns for charged particle vertexing, which will be crucial for time-dependent measurements of CP violation. We provide an overview of the Belle II PXD in this poster.

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