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Module production tests and integration of the Belle II pixel detector

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The construction of the new Japanese super flavour factory has been finalized and the machine is ready for commissioning by the end of 2017. This new e^+e^- machine (SuperKEKB) will deliver an instantaneous luminosity of $8 \times 10^{35} \text{ cm}^{-2} \text{ s}^{-1}$, which is 40 times higher than the world record set by KEKB. In order to be able to fully exploit the increased number of events and provide high precision measurements of the decay vertex of the B meson systems in such a harsh environment, the Belle detector will be upgraded (Belle II) and a new pixel detector (PXD), based on the DEPFET technology, is being constructed. This contribution will give an overview on the status of the Belle II PXD and its components, including the results of the characterization of the first production detector modules and detector integration.

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