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Beam background detection at SuperKEKB/Belle II

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Content

The SuperKEKB energy-asymmetric e+e- collider has completed its first phase of commissioning and is working towards its design luminosity of $8 \times 10^{35} \text{cm}^{-2} \text{s}^{-1}$. The collisions will be recorded and analyzed with the Belle II spectrometer whose construction is on-going at the roll-out position. Last spring, SuperKEKB circulated beams in both rings during the first phase of commissioning. In this time, beam conditions were monitored around the interaction point with an array of sensors collectively called BEAST II. I will report on the results of BEAST II during this commissioning phase as well as plans to upgrade this detector for the second phase of SuperKEKB commissioning.

Summary

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