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Alignment and physics performance of the Belle II vertex detector

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The Belle II experiment at the SuperKEKB accelerator will start to take physics data in 2018. One of the major upgrades of the Belle II detector introduces a DEPFET pixel sensors in the two innermost layers of its silicon vertex detector, followed by four layers of silicon strip sensors. Excellent performance of the vertex reconstruction is a crucial ingredient in CP violation measurements and will require reliable and fast alignment procedure and continuous monitoring of the detector performance. To address the possible systematic errors of the procedure, a dedicated study has been performed to identify and evaluate influence of possible random and systematic deformations of the vertex detector on physics observables.

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