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The Belle-II Silicon Vertex Detector

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The Belle II experiment at the SuperKEKB collider in Japan is designed to indirectly probe new physics using approximately 50 times the data recorded by its predecessor (Belle). An accurate determination of the decay-point position of subatomic particles such as beauty and charm mesons as well as a precise measurement of low-momentum charged particles will play a key role in this pursuit. These will be accomplished by a vertex detector, which comprises two layers of pixelated silicon detector (PXD) and four layers of silicon vertex detector (SVD). We describe herein the design, prototyping and construction efforts of the Belle-II SVD, which is aimed to be commissioned towards early 2017.

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