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DuTiP Vertex Detector for Belle II Upgrade and ILC

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Belle II upgrade is expected around 2028 to mitigate the high background induced by electron and positron beams. We have invented a new pixel detector concept named Dual Timer Pixel (DuTiP) for the vertex detector upgrade. This pixel detector concept can be also used for the layer 7 and 8 of the ILD vertex detector. The first prototype was fabricated with lapis semiconductor 200 nm FD-SOI technology and characterization is ongoing. We will present the status and prospects of the development.

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Primary author: ISHIKAWA, Akimasa (KEK)

Presenter: ISHIKAWA, Akimasa (KEK)

Session Classification: Vertex, Tracking, Timing detectors

Track Classification: Physics and Detector: Vertex, Tracking, Timing