

Plan for an upgrade Upstream Tracker at LHCb Upgrade II

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To fully exploit the flavour physics potential of High Luminosity LHC, the LHCb detector envisages another major upgrade around 2032 to increase the instantaneous luminosity to $1.5 \times 10^{34} \text{ cm}^{-2}\text{s}^{-1}$. The challenge on the silicon-strip based Upstream Tracker has been studied using simulation, and a replacement using silicon pixel detector is proposed. The new system design concept and potential technical choices will be introduced.

Summary

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