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Intelligent Trackers as L1 Trigger providers for the SLHC

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At the SLHC, the present Trigger strategies based on energy deposits in the Calorimeters, and tracks in the outer Muon Detectors, will have to be augmented with information from the Inner Tracking Detectors, to confirm the presence of the corresponding high Pt tracks, and to establish their isolation.

We discuss possible layouts and architectures for the CMS Tracker upgrade at the SLHC, based on "Stacked Modules" and their ability to determine the Pt of charged tracks with a local measurement and to discriminate accordingly, and review the present status of simulation studies of their performance potential both in terms of track reconstruction as well as L1 Trigger providers for the SLHC.

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