

Expected reconstruction performance with the new ATLAS Inner Tracker at the High-Luminosity LHC

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- The new all-silicon Inner Tracker (ITk) of the ATLAS detector will be built for the High Luminosity phase of LHC.
- The reconstruction and Identification of high-level objects is improved mainly due to smaller pixel pitch giving an improved track parameter resolutions
- The performances is stable against pile-up conditions
- The extension up to $|\eta| < 4$ enables reconstruction of (b)-jets, electrons and photon conversion in the forward region.

