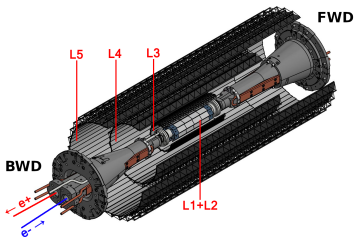


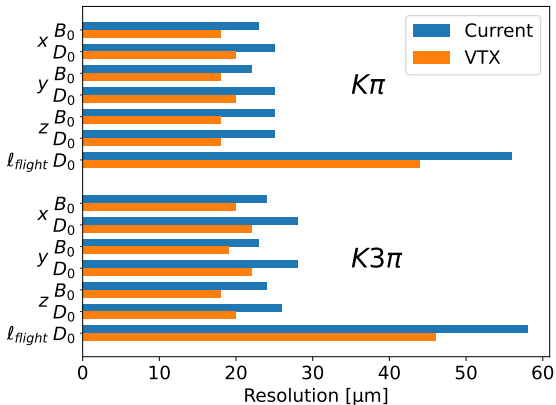


Simulation of an all-layer monolithic pixel vertex detector for the Belle II upgrade

Ludovico Massaccesi on behalf of the Belle II collaboration



The VTX all-pixel concept is proposed to replace the current Belle II pixel-and-strips vertex detector.



Full simulation of the upgraded Belle II on a benchmark channel shows significant improvement in tracking efficiency and resolution, especially at low p_T .