



Contribution ID: 34

Type: **Oral Presentation**

The UT silicon tracker for LHCb's Upgrade I

Wednesday, 31 July 2019 15:00 (20 minutes)

A key part of the LHCb charged particle tracking system is the silicon detector (UT) placed after the Vertex Locator and before the dipole magnet. Its main function is to make a quick measurement on the momentum of tracks using the small magnetic field between the VELO and the UT. The fully software trigger is consequently sped up by a factor of three. Also of prime importance is the rejection of a large fraction of ghost tracks during the full reconstruction. Many physics results depend on the proper implementation of this detector. Novel features including internal pitch adapters and high voltage feed-throughs in the silicon. Construction techniques will be described.

Presenter: POLYAKOV, Ivan (ITEP Institute for Theoretical and Experimental Physics (RU))

Session Classification: Quark & Lepton Flavor

Track Classification: Quark & Lepton Flavor