

The LHCb VELO Detector Modules

The LHCb VELO detector consists of two halves, each equipped with 21 sensor stations. Each station consists of a Carbon Fibre support and a double-sided hybrid module equipped with 32 Beetle readout chips and R and Phi measuring sensors. The modules are designed to operate in a vacuum, transfer 32 watts to the cooling system whilst maintaining the silicon at -7 degrees and provide mechanical alignment and stability at the level of 10um. The design and the development steps leading to production modules will be described.

Author: Mr SMITH, Nigel Anthony (associate)

Presenter: Mr SMITH, Nigel Anthony (associate)