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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.

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