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The LHCb VELO Upgrade at Glasgow

Commencing in 2019, the LHCb detector will undergo a full upgrade from its current design, removing the hardware trigger. This new detector will be read out at the full 40 MHz bunch crossing rate. As a part of this upgrade, the current Vertex Locator (VELO) will be replaced. This work involves co-operation between multiple research groups, each designing components in parallel.

The responsibility of the Glasgow group is to design and produce both the high speed data links from the sensors and the opto-electrical power boards which the links connect to. These devices undergo a rigorous testing procedure to quantify signal loss and error rates amongst other parameters.

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