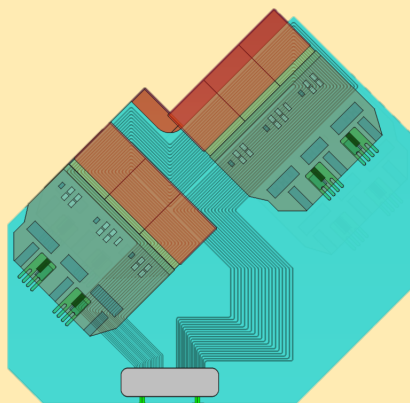
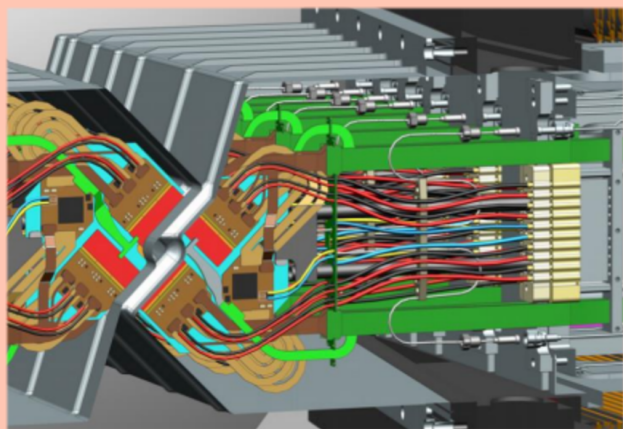


The LHCb VELO Upgrade

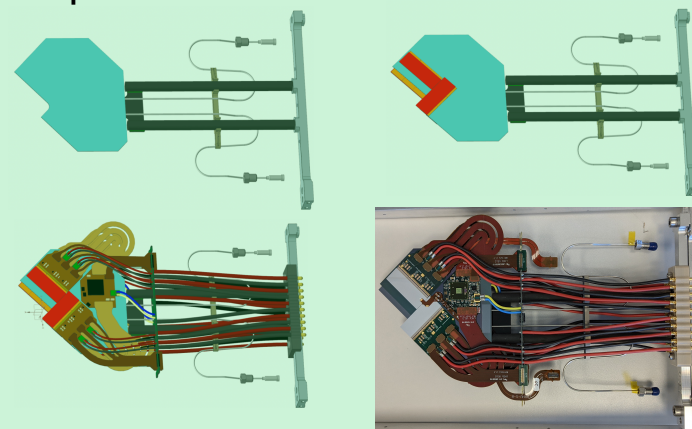
Gianluca Zunica, On behalf of the LHCb collaboration

The LHCb VELO Upgrade is the new LHCb silicon tracker replacing the old detector for Run3

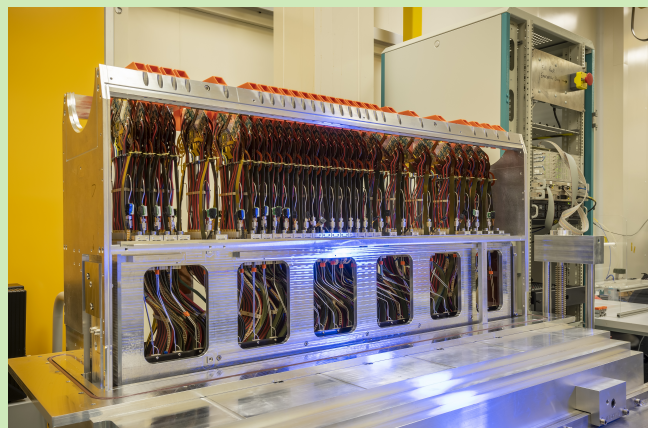
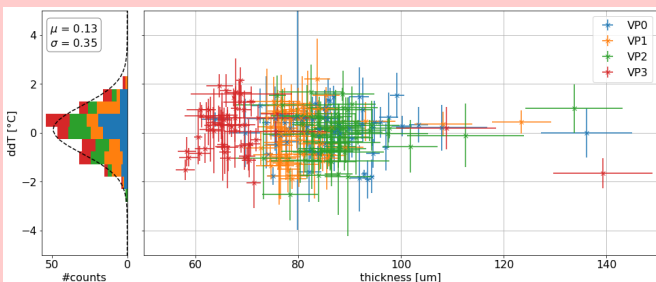


Microchannel silicon substrate provides both structural support and cooling

Module assembly carried out @ Nikhef and Manchester in 4 assembly steps

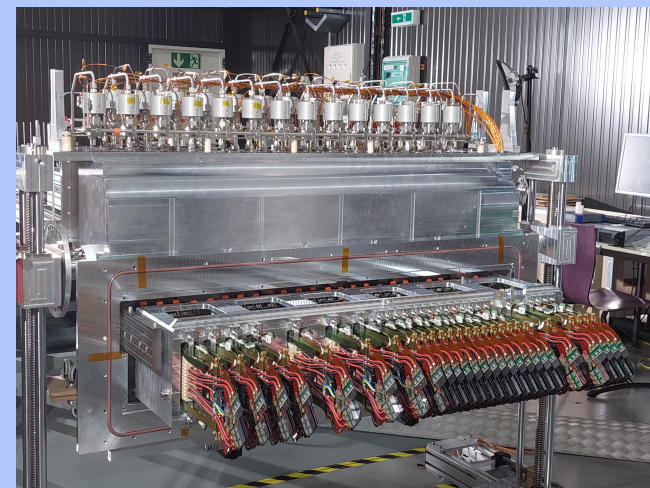


Modules are validated applying vacuum @ -30°C to simulate operation conditions



Detector halves are assembled @ Liverpool

Full detector commissioning @ CERN



Full detector successfully installed