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The MAPP-2 Detector for HL-LHC

The MAPP-2 detector is a large instrumented tunnel decay volume adjacent to IP8 with a volume of 1200m3. The detector utilizes large area scintillator panels with x-y WLS fibres readout by SiPMs arranged in a “Russian Doll configuration to measure the vertices of very Long-Lived Particles (LLPs)emanating from IP8. The sensitivity of MAPP-2 is complementary to other planned LLP detectors and the existing LHC general-purpose detectors. The plans for deploying the MAPP-2 detector at the High Luminosity LHC (HL-LHC) have been endorsed by the LHCC.

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