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The MAPP-1 Detector at LHC's Run-3

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The MAPP-1 (MoEDAL Apparatus for Penetrating Particles) detector, currently being installed in the UA83 tunnel some 100m from IP8, was approved by CERN for installation on the LHC ring for Run-3 operation in December 2021. The purpose of the MAPP-1 detector is to extend the reach of the MoEDAL experiment to include sensitivity to Feebly Ionizing Particles such as milli-charged particles. MAPP-1 combined with MoEDAL trapping detectors also has an unprecedented sensitivity to extremely long-lived massive charged particles. Additionally, MAPP-1 has some sensitivity to very long-lived neutral particles.

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