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The FORMOSA detector for millicharged particles in the LHC forward region

The FORMOSA detector at the proposed Forward Physics Facility is a scintillator based detector proposed to search for signatures from high momentum millicharged particles produced in the forward region of the LHC. This talk will cover the challenges of operating such a detector in the forward region, impressive potential sensitivity, and plans for a FORMOSA demonstrator to prove the feasibility of the detector design. In addition, first results will be shown from the scintillator-based Run 3 milliQan detector in the CMS cavern, which is taking data now to search for millicharged particles.

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