

Abstract Submitted
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FP420, a New Proton Detector for the LHC ANDREW BRANDT,
University of Texas at Arlington, FP420 COLLABORATION — Plans for a proposed upgrade that adds proton taggers 420 m upstream and downstream of the ATLAS and CMS detectors will be presented. These new detectors will add significantly to the discovery potential. The design features ultra-fast time-of-flight counters which could be used to dramatically decrease backgrounds to events with a massive central system and forward/backward protons, by using timing to confirm that the protons originate from the same event vertex as the central system.

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