

Abstract Submitted  
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**Search for New Physics with Emerging Jets** YONGBIN FENG, ALBERTO BELLONI, SARAH ENO, NICK HADLEY, SHABNAM JABEEN, GENG-YUAN JENG, FRANCESCA RICCI-TAM, YOUNG HO SHIN, KAK WONG, Univ of Maryland-College Park, TED KOLBERG, Florida State Univ, THE CMS COLLABORATION — Many extensions of the Standard Model of Particle Physics that address open issues, such as dark matter and baryogenesis, call for long-lived particles that decay at macroscopic distance from the interaction point, which often result in unconventional signatures in the detector. These can easily escape the scrutiny of the existing prompt searches at the LHC. Therefore, the vast class of interesting long-lived phenomena presents rich discovery opportunities for the (HL-)LHC. In this talk I will particularly focus on a model of dark-QCD with a peculiar signature consisting of emerging jets.

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