

## Searching for new physics after the first two years of LHC Run II



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### ”Quirks” at the LHC

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Quirks - particles charged under a QCD-like confining force - are an interesting extension to the Standard Model. If the confinement scale is below  $\sim 100$  MeV, pair-produced quirks exhibit extremely unusual dynamics. Current track reconstruction algorithms at the LHC are mostly blind to the ‘quirky’ tracks these particles leave in the detector, so a new search strategy is proposed that offers good prospects for detection across a broad region of the parameter space.

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