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## Tracking down quirks at the LHC

*Thursday 11 January 2018 11:00 (20 minutes)*

Quirks - particles charged under a QCD-like confining force - are an interesting extension to the Standard Model. Pair-produced quirks can exhibit extremely unusual behaviour if produced at the LHC. Current track reconstruction algorithms at the LHC are mostly blind to the 'quirky' tracks these particles would 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.

### What would be the preferred length of your talk?

20 minutes + questions

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**Session Classification:** Session IV