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## High-pT probes of 4321 and beyond

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The '4321' gauge models are promising extensions of the SM that give rise to the  $\nu_1$  vector leptoquark solution to the  $\mu$ -physics anomalies. Both the gauge and fermion sectors of these UV-constructions lead to a rich phenomenology currently accessible by the Large Hadron Collider. In this talk we describe some of the main LHC signatures and extract exclusion limits using run-II data. In addition, we also discuss a 4321 extension with a dark sector leading to a Majorana dark matter candidate and a coloured partner producing new signatures at the LHC.

### In-person participation

Yes

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