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Phenomenology, Reconstruction and Searches in HEP



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Search for light Z' to qq produced in association with a jet in CMS

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Summary

We perform a search for light generic dijet resonances in the range 50-300 GeV produced in association with a high transverse momentum jet to get above trigger thresholds. This is the first search of its kind at the LHC and uses novel jet substructure and background estimation techniques. We have sensitivity to dijet resonances in the mass-coupling phase space not ever explore in past experiments.

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