

DIS 2015 - XXIII. International Workshop on Deep-Inelastic Scattering and Related Subjects

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XXIII International Workshop on
Deep-Inelastic Scattering and
Related Subjects

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Searches for new heavy resonances and extra dimensions at CMS

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Final states with a pair of particles are sensitive to many models beyond the Standard Model (SM) and allow for a clean search for both new narrow resonances and broad deviations from SM predictions. The most recent results from searches with dijet, dileptons, and leptons plus missing transverse energy are presented using 20 fb⁻¹ of pp collision data collected by the CMS detector with $\sqrt{s} = 8$ TeV at the LHC. No evidence is observed for physics beyond the SM and 95% confidence level limits are set on parameters from a number of theoretical models such as Z', W', Randall-Sundrum Gravitons, large extra dimension scenario, and contact interactions.

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