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## Search for narrow and broad dijet resonances at CMS

*Friday 6 July 2018 15:00 (30 minutes)*

The CMS experiment at the Large Hadron Collider has measured events with two energetic jets and searched for dijet resonances, signals of new physics beyond the standard model. The coupling of the resonance to jets determines whether it has a natural width that is narrow or broad when compared to the experimental resolution. I will present a search for narrow dijet resonances and compare with the predictions of multiple models of new physics, including a mediator of interactions between quarks and dark matter. I will also present a search for broad dijet resonances and discuss the implications for the value of the coupling of a dark matter mediator to quarks.

**Primary author:** HARRIS, Robert (Fermi National Accelerator Lab. (US))

**Presenter:** HARRIS, Robert (Fermi National Accelerator Lab. (US))

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