

Signal/background interference for dijet resonances at the LHC



Prof. Steve P. Martin

Presidential Teaching Scholar

Distinguished Research Professor

Department of Physics

Northern Illinois University

New fundamental physics could appear first in the form of a dijet resonance at the LHC. In such searches, it turns out to be crucial to include the effects of signal/background interference, which imply that resonance hunting is not at all the same thing as bump hunting. The importance of these effects are quantified and compared for several possible spin and color quantum numbers of a new dijet resonance.

Tuesday

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4:00 P.M.

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