

Abstract Submitted
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Sensitivity to Dijet Resonances at CMS KAZIM GUMUS, NURAL AKCHURIN, Texas Tech University, SELDA ESEN, ROBERT HARRIS, FNAL, CMS COLLABORATION — CMS will measure the dijet mass spectrum in proton-proton collisions at $\sqrt{s} = 14$ TeV and will search for narrow resonances. For an integrated luminosity of 1 fb^{-1} the measured dijet mass spectrum of the QCD background is expected to extend from 0.3 to 6 TeV for jet $|\eta| < 1$. For integrated luminosities of 100 pb^{-1} , 1 fb^{-1} and 10 fb^{-1} , we present CMS capability to exclude or discover several models of narrow dijet resonances: excited quarks, axigluons or colorons, E6 diquarks, color octet techirhos, Randall-Sundrum gravitons, and new electroweak gauge bosons W' and Z' .

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