

Abstract Submitted
for the APR08 Meeting of
The American Physical Society

CMS Search Plans for Dijet Resonances JANE NACHTMAN, University of Iowa, CMS COLLABORATION — New particles decaying to two partons can produce large dijet resonance signals at the LHC. The dijet mass distribution at CMS is sensitive to the rate of strongly produced resonances in a previously unexplored mass region. The expected dijet mass resolution at CMS is presented. The dijet ratio is sensitive to the decay angular distribution of dijet resonances, and therefore also to resonance spin. The optimum pseudorapidity interval for these measurements is discussed. The expected sensitivity using the dijet mass distribution and the dijet ratio with 100 pb^{-1} of integrated luminosity is explored.

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Date submitted: 10 Jan 2008

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