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Exotic J/psi Phi Structures and Search for the Z(4430)+ State at CDF

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- Updated studies of exotic J/psi phi structures at CDF
  We report updated studies of the J/psi phi mass spectrum in exclusive B+ –> J/psi phi K+ decays collected by the CDF experiment. Using an increased data sample of 5 fbˆ-1 and by adding new triggers we establish observation of the Y(4140) state in its J/Psi Phi decay and provide more precise measurements of its properties.
- Search for multiquark Z(4430)+ state in hadron collisions
  The observation of the Z(4430)+ resonance, the first solid candidate exotic multiquark state, has been reported by the Belle experiment but not confirmed by Babar. Any information from the Tevatron could be discriminating in establishing or excluding its existence. We report the first search for exotic Z(4430)+ state in hadron collisions, using 5.7 fbˆ-1 of data collected by the CDF detector at the Tevatron collider.

Author: THE CDF COLLABORATION

Presenter: YI, Kai (Physics and Astronomy Department-University of Iowa)

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