Contribution ID: **81** Type: **not specified**

ccbar pentaquarks by a quark model

Tuesday, 26 July 2016 15:15 (30 minutes)

Recent LHCb experiments show us that there are two resonances in the N-J/Psi channel, whose spin and parity are most probably (3/2- 5/2+). In this work, we will show that there is a state which gains a large attraction from the color-magnetic interaction in the uudccbar I(JP)=1/2(3/2-) channel, which appears as a resonance in the Lambda_c Dbar* channel, when one employs a quark model. We also found that there is an equally or more attractive state in the channel with strangeness, udsccbar, I(JP)=0(1/2-). We would like to discuss the possibility to find it as a resonance in the Lambda-J/Psi or Lambda-etac channels.

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Session Classification: Pentaquarks