

## 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  $uudc\bar{c}b$   $I(JP)=1/2(3/2^-)$  channel, which appears as a resonance in the  $\Lambda_c \ D\bar{b}^*$  channel, when one employs a quark model. We also found that there is an equally or more attractive state in the channel with strangeness,  $uds\bar{c}b$ ,  $I(JP)=0(1/2^-)$ . We would like to discuss the possibility to find it as a resonance in the  $\Lambda_c\text{-}J/\Psi$  or  $\Lambda_c\text{-}\eta_c$  channels.

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**Session Classification:** Pentaquarks