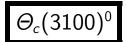
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# $I(J^P) = 0(?^?)$

### OMITTED FROM SUMMARY TABLE

AKTAS 04A in  $e^{\pm}p$  reactions at c.m. energies of 300 and 320 GeV sees the peak in  $D^*(2010)^-p$  and  $D^*(2010)^+\overline{p}$  mass spectra. The minimum quark content would be  $uudd\overline{c}$ .

#### However:

- SCHAEL 04 in a search in  $D^-p$  and  $D^{*-}p$  (and charge conjugate) events from 3.5M Z decays sees no evidence for the peak.
- CHEKANOV 04D finds no evidence in  $D^{*-}p$  (and charge-conjugate) events with more than 60,000 reconstructed  $D^{*\pm}$  mesons.
- LINK 05D finds no evidence in  $D^-p$  and  $D^{*-}p$  (and charge-conjugate) events in a cleaner and 30 times larger sample than that of AKTAS 04A.
- AUBERT,B 06I finds no evidence in 125,000  $D^{*-}p$  (and charge-conjugate) events produced in  $e^+e^-$  reactions at 10.58 GeV.
- DELELLIS 07 finds no evidence in 2262  $\overline{\nu}$  emulsion charged-current events. (This is actually a search for a  $\Theta_c$  below the  $D^-p$  threshold, not for the  $\Theta_c(3100)$ .)

# $\Theta_c(3100)^0$ MASS

VALUE (MeV)EVTSDOCUMENT IDTECNCOMMENT3099±3±551 $^{1}$  AKTAS04AH1 $D^{*-}p \& D^{*+}\overline{p}$ 

## $\Theta_c(3100)^0$ REFERENCES

**DELELLIS** NP B763 268 G. De Lellis et al. (CERN CHORUS Collab.) AUBERT,B PR D73 091101R B. Aubert et al. (BABAR Collab.) 061 LINK 05D PL B622 229 J.M. Link et al. (FNAL FOCUS Collab.) AKTAS (HERA H1 Collab. (HERA ZEUS Collab. 04A PL B588 17 A. Aktas et al. CHEKANOV 04D EPJ C38 29 Chekanov et al. (ALEPH Collab.) SCHAEL PL B599 1 S. Schael et al.

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REFID=51599 REFID=51304 REFID=50566 REFID=49898 REFID=50310 REFID=50121

AKTAS 04A estimates a peak of 51 events above a background of 45 events, and claims a statistical significance of about 5.4 standard deviations; another estimate of significance gives 6.2 standard deviations. (However, no account has been taken of the number of bins searched in.) The gaussian width of the peak, 12 MeV, is consistent with the resolution.