$\Theta_c(3100)^0$ 

$$I(J^P) = 0(?^?)$$
 Status: \*

## 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 reported below. 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. Neither does CHEKANOV 04D find any evidence in  $D^{*-}p$  or  $D^{*+}\overline{p}$  with more than 60,000 reconstructed  $D^{*\pm}$  mesons.

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

VALUE (MeV)	<b>EVTS</b>	DOCUMENT ID	TECN	COMMENT
3099±3±5	51	<sup>1</sup> AKTAS	04A H1	$D^{*-} p \& D^{*+} \overline{p}$

<sup>&</sup>lt;sup>1</sup> 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.

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

AKTAS 04A PL B588 17 A. Aktas *et al.* (HERA H1 Collab.) CHEKANOV 04D EPJ C38 29 S. Chekanov *et al.* (HERA ZEUS Collab.) SCHAEL 04 PL B599 1 S. Schael *et al.* (ALEPH Collab.)

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