

**$D(3000)^0$**  $I(J^P) = \frac{1}{2}(??)$ 

## OMITTED FROM SUMMARY TABLE

Both natural- and unnatural-parity components observed depending on the decay mode (AAIJ 13CC).

 **$D(3000)^0$  MASS**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>				
2971.8 $\pm$ 8.7	9.5k	1,2 AAIJ	13CC LHCb	$p p \rightarrow D^{*+} \pi^- X$
3008.1 $\pm$ 4.0	17.6k	1,3 AAIJ	13CC LHCb	$p p \rightarrow D^+ \pi^- X$
<b>1</b> Systematic uncertainty not estimated. <b>2</b> Unnatural parity preferred. <b>3</b> Natural parity state. A state $D(3000)^+$ is possibly seen in $D^0 \pi^+$ final state.				

 **$D(3000)^0$  WIDTH**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>				
188.1 $\pm$ 44.8	9.5k	4,5 AAIJ	13CC LHCb	$p p \rightarrow D^{*+} \pi^- X$
110.5 $\pm$ 11.5	17.6k	4,6 AAIJ	13CC LHCb	$p p \rightarrow D^+ \pi^- X$
<b>4</b> Systematic uncertainty not estimated. <b>5</b> Unnatural parity preferred. <b>6</b> Natural parity state. A state $D(3000)^+$ is possibly seen in $D^0 \pi^+$ final state.				

 **$D(3000)^0$  DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad D^{*+} \pi^-$	seen

 **$D(3000)^0$  POLARIZATION AMPLITUDE  $A_{D_J}$** 

A polarization amplitude  $A_{D_J}$  is a parameter that depends on the initial polarization of the  $D_J$ . For  $D_J$  decays the helicity angle,  $\theta_H$ , distribution varies like  $1 + A_{D_J} \cos^2(\theta_H)$ , where  $\theta_H$  is the angle in the  $D_J$  rest frame between the two pions emitted in the  $D_J \rightarrow D^* \pi$  and  $D^* \rightarrow D \pi$  decays.

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>				
1.5 $\pm$ 0.9	9.5k	7 AAIJ	13CC LHCb	$p p \rightarrow D^{*+} \pi^- X$
<b>7</b> Systematic uncertainty not estimated.				

 **$D(3000)^0$  REFERENCES**