

**$D(2740)^0$** 

$$I(J^P) = \frac{1}{2}(??)$$

OMITTED FROM SUMMARY TABLE

 $J^P$  consistent with unnatural parity (AAIJ 13CC). **$D(2740)^0$  MASS**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>2737.0 ± 3.5 ± 11.2</b>	7.7k	AAIJ	13CC LHCB	$pp \rightarrow D^{*+} \pi^- X$

 **$D(2740)^0$  WIDTH**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>73.2 ± 13.4 ± 25.0</b>	7.7k	AAIJ	13CC LHCB	$pp \rightarrow D^{*+} \pi^- X$

 **$D(2740)^0$  DECAY MODES**

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

 **$D(2740)^0$  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>3.1 ± 2.2</b>	7.7k	<sup>1</sup> AAIJ	13CC LHCB	$pp \rightarrow D^{*+} \pi^- X$

• • • We do not use the following data for averages, fits, limits, etc. • • •

<sup>1</sup>Systematic uncertainty not estimated.

 **$D(2740)^0$  REFERENCES**

AAIJ	13CC JHEP 1309 145	R. Aaij <i>et al.</i>	(LHCb Collab.)
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