

$D(2740)^0$

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

OMITTED FROM SUMMARY TABLE

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

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

 $D(2740)^0$ WIDTH

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

 $D(2740)^0$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_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, θ_H , distribution varies like $1 + A_{D_J} \cos^2(\theta_H)$, where θ_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
3.1±2.2	7.7k	¹ AAIJ	13CC LHCB	$pp \rightarrow D^{*+} \pi^- X$

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

¹Systematic uncertainty not estimated.

 $D(2740)^0$ REFERENCES

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