

$D_1(2430)^0$

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

$$J^P = 1^+ \text{ determined by AAIJ 20D.}$$

$D_1(2430)^0$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2412± 9 OUR AVERAGE				
2411± 3± 9	79k	¹ AAIJ	20D LHCb	$B^- \rightarrow D^{*+} \pi^- \pi^-$
2427±26±25		ABE	04D BELLE	$B^- \rightarrow D^{*+} \pi^- \pi^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
2477±28		² AUBERT	06L BABR	$\overline{B}^0 \rightarrow D^{*+} \omega \pi^-$
¹ From a full four-body amplitude analysis of the $B^- \rightarrow D^{*+} \pi^- \pi^-$ decay.				
² Systematic errors not estimated.				

$D_1(2430)^0$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
314± 29 OUR AVERAGE				
309± 9±28	79k	¹ AAIJ	20D LHCb	$B^- \rightarrow D^{*+} \pi^- \pi^-$
384 ⁺¹⁰⁷ ₋₇₅ ±74		ABE	04D BELLE	$B^- \rightarrow D^{*+} \pi^- \pi^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
266± 97		² AUBERT	06L BABR	$\overline{B}^0 \rightarrow D^{*+} \omega \pi^-$
¹ From a full four-body amplitude analysis of the $B^- \rightarrow D^{*+} \pi^- \pi^-$ decay.				
² Systematic errors not estimated.				

$D_1(2430)^0$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad D^*(2010)^+ \pi^-$	seen

$D_1(2430)^0$ REFERENCES

AAIJ	20D	PR D101 032005	R. Aaij <i>et al.</i>	(LHCb Collab.) JP
AUBERT	06L	PR D74 012001	B. Aubert <i>et al.</i>	(BABAR Collab.)
ABE	04D	PR D69 112002	K. Abe <i>et al.</i>	(BELLE Collab.)