

$D_1(2430)^0$

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

 $J^P = 1^+$ 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 BELL	$B^- \rightarrow D^{*+} \pi^- \pi^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
2477 ± 28		² AUBERT	06L BABR	$\bar{B}^0 \rightarrow D^{*+} \omega \pi^-$

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 BELL	$B^- \rightarrow D^{*+} \pi^- \pi^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
266 ± 97		² AUBERT	06L BABR	$\bar{B}^0 \rightarrow D^{*+} \omega \pi^-$

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)
Γ_1 $D^*(2010)^+ \pi^-$	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.)