

$D_1^*(2600)^0$

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

OMMITTED FROM SUMMARY TABLE

was $D_J^*(2600)$

$J^P = 1^-$ determined by AAIJ 20D.

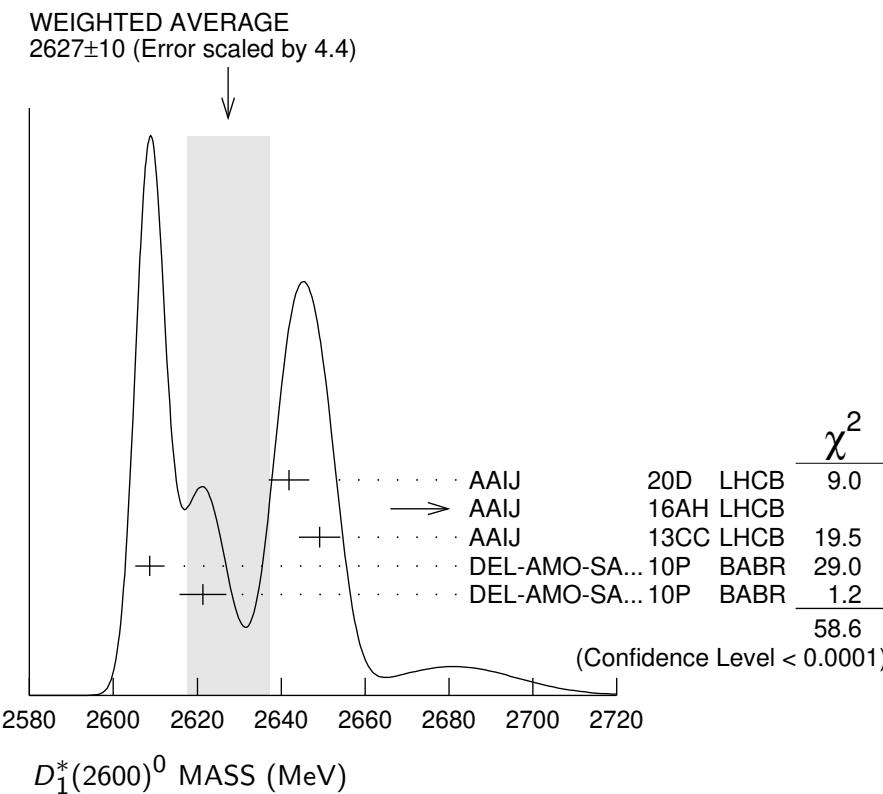
$D_1^*(2600)^0$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
2627 ± 10 OUR AVERAGE					Error includes scale factor of 4.4. See the ideogram below.
2641.9 \pm 1.8 \pm 4.5	79k	1 AAIJ	20D LHCb		$B^- \rightarrow D^{*+} \pi^- \pi^-$
2681.1 \pm 5.6 \pm 14.0	28k	2 AAIJ	16AH LHCb		$B^- \rightarrow D^+ \pi^- \pi^-$
2649.2 \pm 3.5 \pm 3.5	51k	AAIJ	13CC LHCb		$p p \rightarrow D^{*+} \pi^- X$
2608.7 \pm 2.4 \pm 2.5	26k	DEL-AMO-SA..10P	BABR 0		$e^+ e^- \rightarrow D^+ \pi^- X$
2621.3 \pm 3.7 \pm 4.2	13k	3 DEL-AMO-SA..10P	BABR +		$e^+ e^- \rightarrow D^0 \pi^+ X$

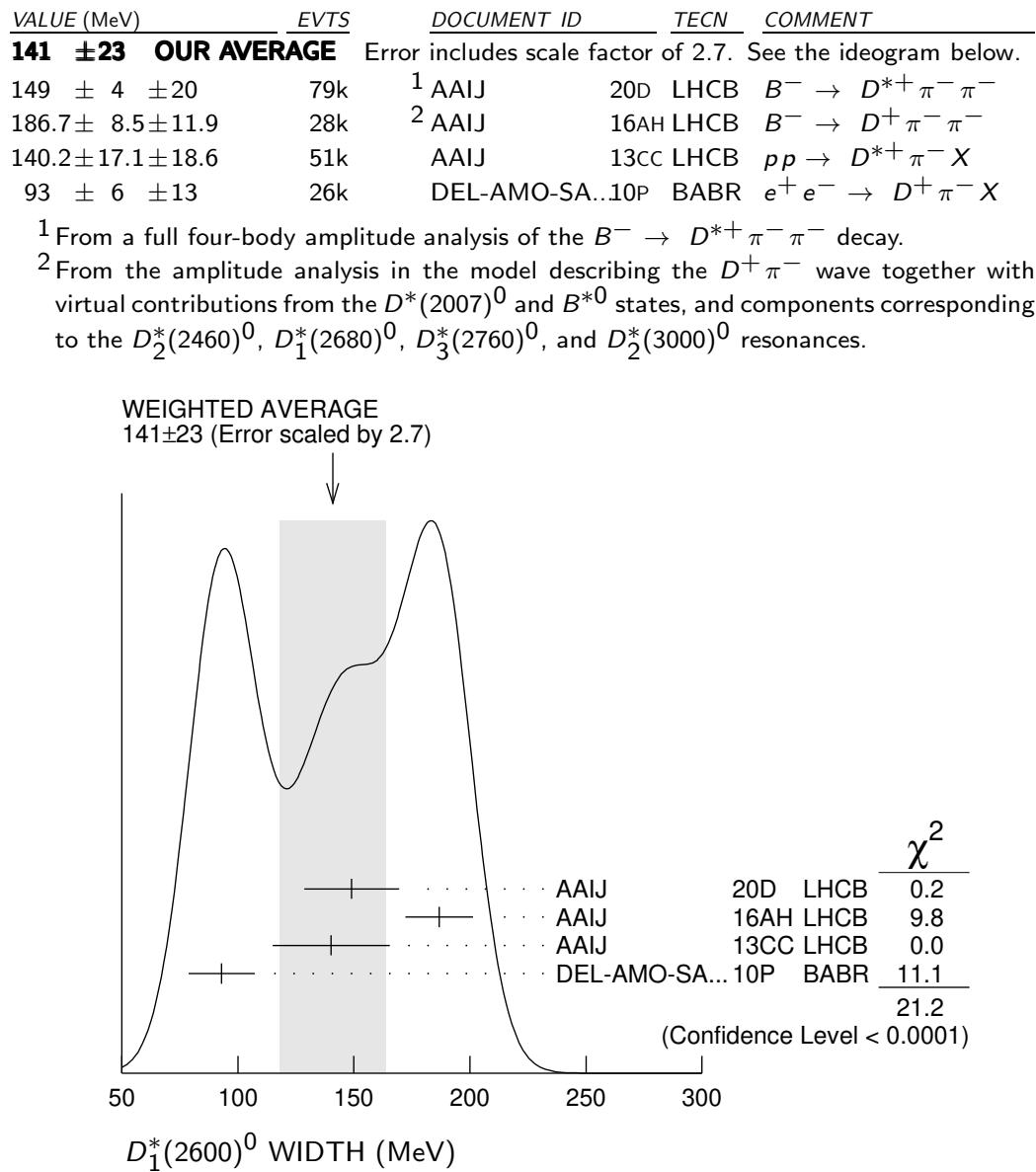
¹ From a full four-body amplitude analysis of the $B^- \rightarrow D^{*+} \pi^- \pi^-$ decay.

² From the amplitude analysis in the model describing the $D^+ \pi^-$ wave together with virtual contributions from the $D^*(2007)^0$ and B^*0 states, and components corresponding to the $D_2^*(2460)^0$, $D_1^*(2680)^0$, $D_3^*(2760)^0$, and $D_2^*(3000)^0$ resonances.

³ At a fixed width of 93 MeV.



$D_1^*(2600)^0$ WIDTH



$D_1^*(2600)^0$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 D\pi$	seen
$\Gamma_2 D^+\pi^-$	seen
$\Gamma_3 D^0\pi^\pm$	seen
$\Gamma_4 D^*\pi$	seen
$\Gamma_5 D^{*+}\pi^-$	seen

$D_1^*(2600)^0$ BRANCHING RATIOS

$\Gamma(D^+\pi^-)/\Gamma(D^{*+}\pi^-)$	Γ_2/Γ_5
VALUE $0.32 \pm 0.02 \pm 0.09$	EVTS 76k

DOCUMENT ID *TECN* *COMMENT*

DEL-AMO-SA...10P BABR $e^+ e^- \rightarrow D^{(*)} + \pi^- X$

$D_1^*(2600)^0$ REFERENCES

AAIJ	20D PR D101 032005	R. Aaij <i>et al.</i>	(LHCb Collab.) JP
AAIJ	16AH PR D94 072001	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	13CC JHEP 1309 145	R. Aaij <i>et al.</i>	(LHCb Collab.)
DEL-AMO-SA... 10P	PR D82 111101	P. del Amo Sanchez <i>et al.</i>	(BABAR Collab.)