NODE=M199

$D_1^*(2600)^0$

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

OMITTED FROM SUMMARY TABLE
was $D_J^*(2600)$

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

NODE=M199

$D_1^*(2600)^0$ MASS

NODE=M199M

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± 1.8± 4.5	79k	[1] AAIJ	20D	LHCB		$B^- \to D^{*+}\pi^-\pi^-$
2681.1± 5.6±14.0	28k	[2] AAIJ	16AH	LHCB		$B^- \to D^+\pi^-\pi^-$
2649.2± 3.5± 3.5	51k	AAIJ	13CC	LHCB		$pp \to D^{*+}\pi^- X$
2608.7± 2.4± 2.5	26k	DEL-AMO-SA..	10P	BABR	0	$e^+e^- \to D^+\pi^- X$
2621.3± 3.7± 4.2	13k	[3] DEL-AMO-SA..	10P	BABR	+	$e^+e^- \to D^0\pi^+ X$

NODE=M199M

OCCUR=2

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

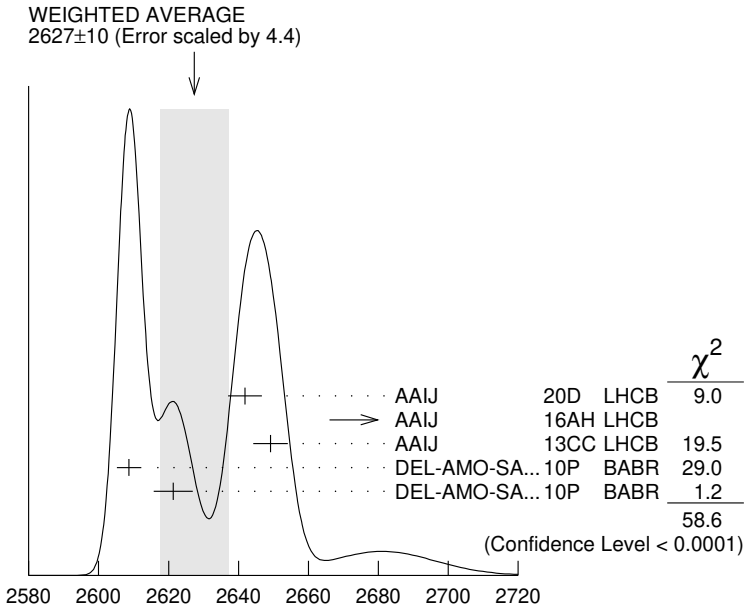
NODE=M199M;LINKAGE=B

[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.

NODE=M199M;LINKAGE=A

[3] At a fixed width of 93 MeV.

NODE=M199M;LINKAGE=DE



$D_1^*(2600)^0$ WIDTH

NODE=M199W

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
141 ±23 OUR AVERAGE		Error includes scale factor of 2.7. See the ideogram below.			
149 ± 4 ±20	79k	[1] AAIJ	20D	LHCB	$B^- \to D^{*+}\pi^-\pi^-$
186.7± 8.5±11.9	28k	[2] AAIJ	16AH	LHCB	$B^- \to D^+\pi^-\pi^-$
140.2±17.1±18.6	51k	AAIJ	13CC	LHCB	$pp \to D^{*+}\pi^- X$
93 ± 6 ±13	26k	DEL-AMO-SA..	10P	BABR	$e^+e^- \to D^+\pi^- X$

NODE=M199W

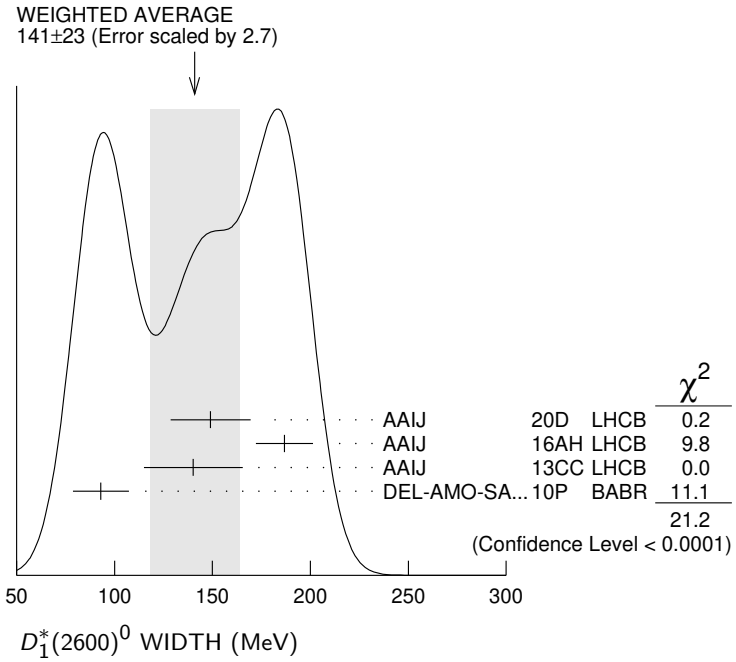
NODE=M199W

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

NODE=M199W;LINKAGE=B

[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.

NODE=M199W;LINKAGE=A



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

NODE=M199215;NODE=M199

	Mode	Fraction (Γ_i/Γ)	
Γ_1	$D\pi$	seen	DESIG=1;OUR EVAL;→ UNCHECKED ←
Γ_2	$D^+\pi^-$	seen	DESIG=2;OUR EVAL;→ UNCHECKED ←
Γ_3	$D^0\pi^\pm$	seen	DESIG=3;OUR EVAL;→ UNCHECKED ←
Γ_4	$D^*\pi$	seen	DESIG=4;OUR EVAL;→ UNCHECKED ←
Γ_5	$D^{*+}\pi^-$	seen	DESIG=5;OUR EVAL;→ UNCHECKED ←

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

NODE=M199220

$\Gamma(D^+\pi^-)/\Gamma(D^{*+}\pi^-)$ **Γ_2/Γ_5**

NODE=M199R01
NODE=M199R01

VALUE	*EVTS*	*DOCUMENT ID*	*TECN*	*COMMENT*
0.32±0.02±0.09	76k	DEL-AMO-SA..10P	BABR	$e^+e^- \to D^{(*)+}\pi^- X$

$D_1^*(2600)^0$ REFERENCES

NODE=M199

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

REFID=60253
REFID=57518
REFID=55581
REFID=53534