

$D_J^*(2600)$   
was  $D(2600)$ ,

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

OMITTED FROM SUMMARY TABLE

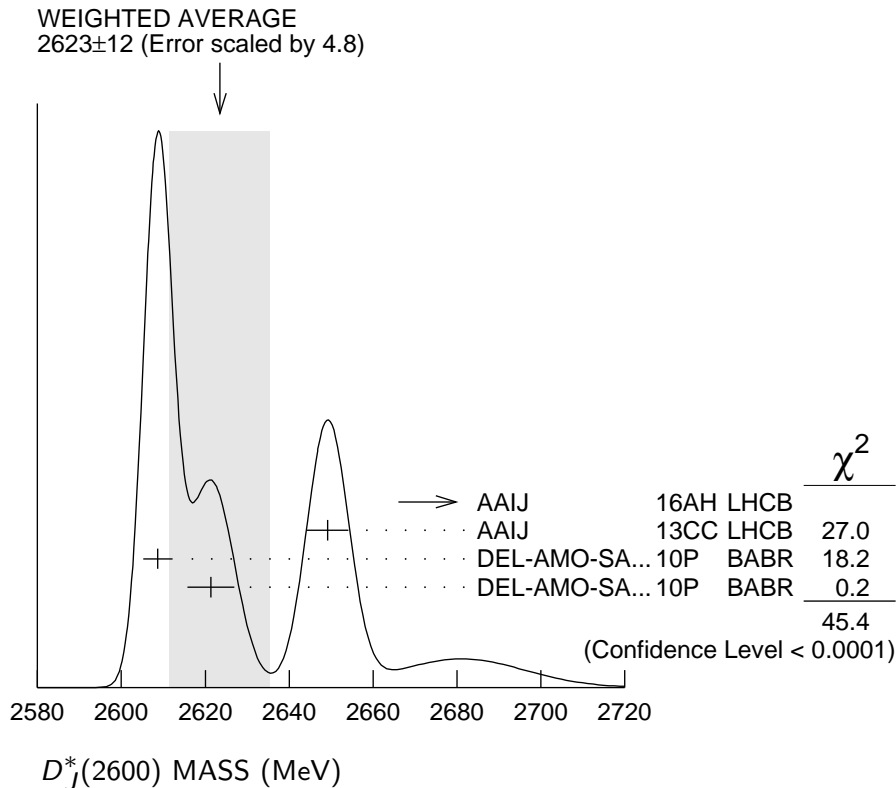
$J^P$  consistent with natural parity (DEL-AMO-SANCHEZ 10P, AAIJ 13CC).

### $D_J^*(2600)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
<b>2623 ±12</b>	<b>OUR AVERAGE</b>	Error includes scale factor of 4.8. See the ideogram below.			
2681.1 ± 5.6 ±14.0	28k	<sup>1</sup> AAIJ	16AH LHCb		$B^- \rightarrow D^+ \pi^- \pi^-$
2649.2 ± 3.5 ± 3.5	51k	AAIJ	13CC LHCb		$pp \rightarrow D^{*+} \pi^- X$
2608.7 ± 2.4 ± 2.5	26k	DEL-AMO-SA..10P	BABR	0	$e^+ e^- \rightarrow D^+ \pi^- X$
2621.3 ± 3.7 ± 4.2	13k	<sup>2</sup> DEL-AMO-SA..10P	BABR	+	$e^+ e^- \rightarrow D^0 \pi^+ X$

<sup>1</sup> 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.

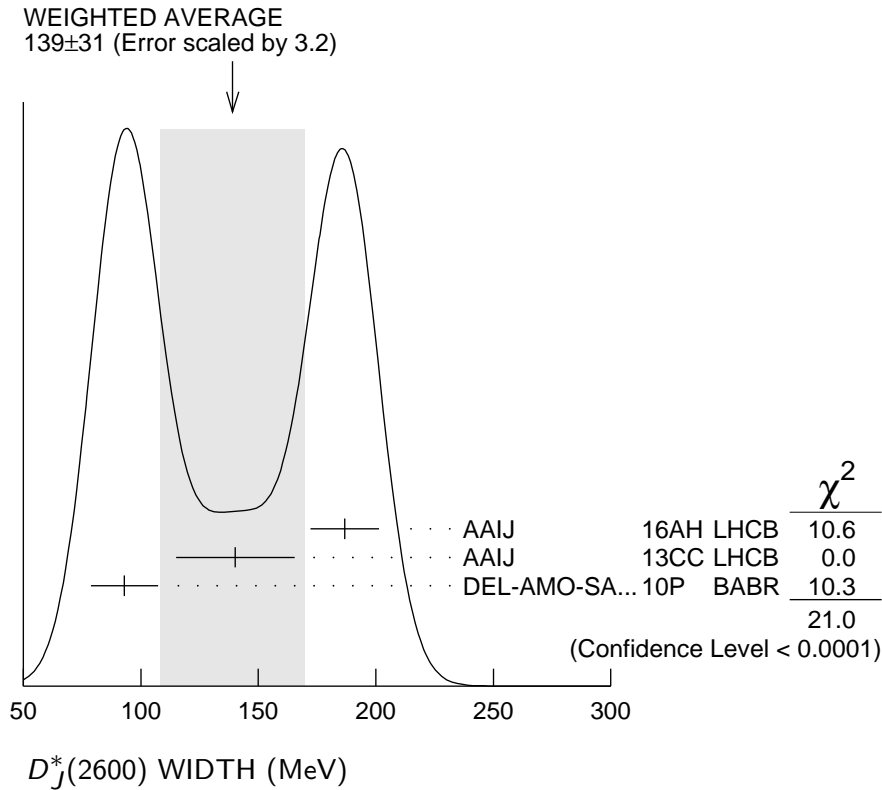
<sup>2</sup> At a fixed width of 93 MeV.



## $D_J^*(2600)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>139 ± 31</b>	<b>OUR AVERAGE</b>	Error includes scale factor of 3.2. See the ideogram below.		
186.7 ± 8.5 ± 11.9	28k	<sup>3</sup> AAIJ	16AH LHCb	$B^- \rightarrow D^+ \pi^- \pi^-$
140.2 ± 17.1 ± 18.6	51k	AAIJ	13CC LHCb	$p p \rightarrow D^{*+} \pi^- X$
93 ± 6 ± 13	26k	DEL-AMO-SA...10P	BABR	$e^+ e^- \rightarrow D^+ \pi^- X$

<sup>3</sup>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.



## $D_J^*(2600)$ DECAY MODES

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

## $D_J^*(2600)$ BRANCHING RATIOS

$\Gamma(D^+ \pi^-) / \Gamma(D^{*+} \pi^-)$					$\Gamma_2 / \Gamma_5$
<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
<b><math>0.32 \pm 0.02 \pm 0.09</math></b>	76k	DEL-AMO-SA...10P	BABR	$e^+ e^- \rightarrow D^{(*)+} \pi^- X$	

## $D_J^*(2600)$ REFERENCES

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.)