

$D_{s1}^*(2700)^{\pm}$

$I(J^P) = 0(1^-)$

OMITTED FROM SUMMARY TABLE

$D_{s1}^*(2700)^+ \text{ MASS}$

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2709^{+9}_{-6} OUR AVERAGE				
$2710 \pm 2^{+12}_{-7}$	10.4k	¹ AUBERT	09AR BABR	$e^+ e^- \rightarrow D^{(*)} K X$
$2708 \pm 9^{+11}_{-10}$	182	BRODZICKA 08	BELL	$B^+ \rightarrow D^0 \bar{D}^0 K^+$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
$2688 \pm 4 \pm 3$		² AUBERT,BE	06E BABR	$10.6 \text{ e}^+ \text{e}^- \rightarrow D K X$
¹ From simultaneous fits to the two $D K$ mass spectra and to the total $D^* K$ mass spectrum.				
² Superseded by AUBERT 09AR.				

$D_{s1}^*(2700)^+ \text{ WIDTH}$

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
125 ± 30 OUR AVERAGE				
$149 \pm 7^{+39}_{-52}$	10.4k	³ AUBERT	09AR BABR	$e^+ e^- \rightarrow D^{(*)} K X$
$108 \pm 23^{+36}_{-31}$	182	BRODZICKA 08	BELL	$B^+ \rightarrow D^0 \bar{D}^0 K^+$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
$112 \pm 7 \pm 36$		⁴ AUBERT,BE	06E BABR	$10.6 \text{ e}^+ \text{e}^- \rightarrow D K X$
³ From simultaneous fits to the two $D K$ mass spectra and to the total $D^* K$ mass spectrum.				
⁴ Superseded by AUBERT 09AR.				

$D_{s1}^*(2700)^{\pm} \text{ DECAY MODES}$

Mode	
Γ_1	$D K$
Γ_2	$D^0 K^+$
Γ_3	$D^+ K_S^0$
Γ_4	$D^* K$
Γ_5	$D^{*0} K^+$
Γ_6	$D^{*+} K_S^0$

$D_{s1}^*(2700)^{\pm}$ BRANCHING RATIOS

$\Gamma(D^*K)/\Gamma(DK)$

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT	Γ_4/Γ_1
0.91±0.13±0.12	10.4k	5 AUBERT	09AR BABR	$e^+e^- \rightarrow D^{(*)}KX$	

⁵ From the average of the corresponding ratios with $D^{(*)}0K^+$ and $D^{(*)}+K_S^0$.

$\Gamma(D^{*0}K^+)/\Gamma(D^0K^+)$

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT	Γ_5/Γ_2
• • • We do not use the following data for averages, fits, limits, etc. • • •					

0.88±0.14±0.14 7716 6 AUBERT 09AR BABR $e^+e^- \rightarrow D^{(*)}KX$

⁶ From the $D^{*0}K^+$ and D^0K^+ , where $D^{*0} \rightarrow D^0\pi^0$.

$\Gamma(D^{*+}K_S^0)/\Gamma(D^+K_S^0)$

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT	Γ_6/Γ_3
• • • We do not use the following data for averages, fits, limits, etc. • • •					

1.14±0.39±0.23 2700 7 AUBERT 09AR BABR $e^+e^- \rightarrow D^{(*)}KX$

⁷ From the $D^{*+}K_S^0$ and $D^+K_S^0$, where $D^{*+} \rightarrow D^+\pi^0$.

$D_{s1}^*(2700)^{\pm}$ REFERENCES

AUBERT	09AR PR D80 092003	B. Aubert <i>et al.</i>	(BABAR Collb.)
BRODZICKA	08 PRL 100 092001	J. Brodzicka <i>et al.</i>	(BELLE Collab.)
AUBERT,BE	06E PRL 97 222001	B. Aubert <i>et al.</i>	(BABAR Collab.)