

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

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

OMITTED FROM SUMMARY TABLE

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

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² Superseded by AUBERT 09AR.				

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

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⁴ Superseded by AUBERT 09AR.				

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

Mode
Γ_1 DK
Γ_2 D^0K^+
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

$\Gamma(D^* K)/\Gamma(D K)$					Γ_4/Γ_1
<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
$0.91 \pm 0.13 \pm 0.12$	10.4k	⁵ AUBERT	09AR BABR	$e^+ e^- \rightarrow D^{(*)} K X$	
⁵ From the average of the corresponding ratios with $D^{(*)0} K^+$ and $D^{(*)+} K_S^0$.					

$\Gamma(D^{*0} K^+)/\Gamma(D^0 K^+)$					Γ_5/Γ_2
<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
$0.88 \pm 0.14 \pm 0.14$	7716	⁶ AUBERT	09AR BABR	$e^+ e^- \rightarrow D^{(*)} K X$	
⁶ From the $D^{*0} K^+$ and $D^0 K^+$, where $D^{*0} \rightarrow D^0 \pi^0$.					

$\Gamma(D^{*+} K_S^0)/\Gamma(D^+ K_S^0)$					Γ_6/Γ_3
<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
$1.14 \pm 0.39 \pm 0.23$	2700	⁷ AUBERT	09AR BABR	$e^+ e^- \rightarrow D^{(*)} K X$	
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.)