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

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

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

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
2709 ±4 OUR AVERAGE					
2709.2±1.9± 4.5	52k	[1] AAIJ	12AU	LHCB	$pp \to (DK)^+X$ at 7 TeV
2710 ±2 $^{+12}_{-7}$	10.4k	[2] AUBERT	09AR	BABR	$e^+e^- \to D^{(*)}KX$
2708 ±9 $^{+11}_{-10}$	182	BRODZICKA	08	BELL	$B^+ \to D^0\overline{D}^0K^+$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
2688 ±4 ± 3		[3] AUBERT,BE	06E	BABR	10.6 $e^+e^- \to DKX$

[1] From the combined fit of the $D^+K_S^0$ and D^0K^+ modes in the model including the $D_{s2}^*(2573)^+$, $D_{s1}^*(2700)^+$ and spin-0 $D_{sJ}^*(2860)^+$.
[2] From simultaneous fits to the two DK mass spectra and to the total D^*K mass spectrum.
[3] Superseded by AUBERT 09AR.

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

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
117 ±13 OUR AVERAGE					
115.8± 7.3±12.1	52k	[4] AAIJ	12AU	LHCB	$pp \to (DK)^+X$ at 7 TeV
149 ± 7 $^{+39}_{-52}$	10.4k	[5] AUBERT	09AR	BABR	$e^+e^- \to D^{(*)}KX$
108 ±23 $^{+36}_{-31}$	182	BRODZICKA	08	BELL	$B^+ \to D^0\overline{D}^0K^+$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
112 ± 7 ±36		[6] AUBERT,BE	06E	BABR	10.6 $e^+e^- \to DKX$

[4] From the combined fit of the $D^+K_S^0$ and D^0K^+ modes in the model including the $D_{s2}^*(2573)^+$, $D_{s1}^*(2700)^+$ and spin-0 $D_{sJ}^*(2860)^+$.
[5] From simultaneous fits to the two DK mass spectra and to the total D^*K mass spectrum.
[6] Superseded by AUBERT 09AR.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

$\Gamma(D^{*}K)/\Gamma(DK)$ Γ_4/Γ_1

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.91±0.13±0.12	10.4k	[7] AUBERT	09AR	BABR	$e^+e^- \to D^{(*)}KX$

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

$\Gamma(D^{*0}K^+)/\Gamma(D^0K^+)$ Γ_5/Γ_2

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.88±0.14±0.14	7716	[8] AUBERT	09AR	BABR	$e^+e^- \to D^{(*)}KX$

[8] From the $D^{*0}K^+$ and D^0K^+, where $D^{*0} \to D^0\pi^0$.

$\Gamma(D^{*+}K_S^0)/\Gamma(D^+K_S^0)$ Γ_6/Γ_3

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
1.14±0.39±0.23	2700	[9] AUBERT	09AR	BABR	$e^+e^- \to D^{(*)}KX$

[9] From the $D^{*+}K_S^0$ and $D^+K_S^0$, where $D^{*+} \to D^+\pi^0$.

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

AAIJ	12AU	JHEP 1210 151	R. Aaij *et al.*	(LHCb Collab.)
AUBERT	09AR	PR D80 092003	B. Aubert *et al.*	(BABAR Collab.)
BRODZICKA	08	PRL 100 092001	J. Brodzicka *et al.*	(BELLE Collab.)
AUBERT,BE	06E	PRL 97 222001	B. Aubert *et al.*	(BABAR Collab.)