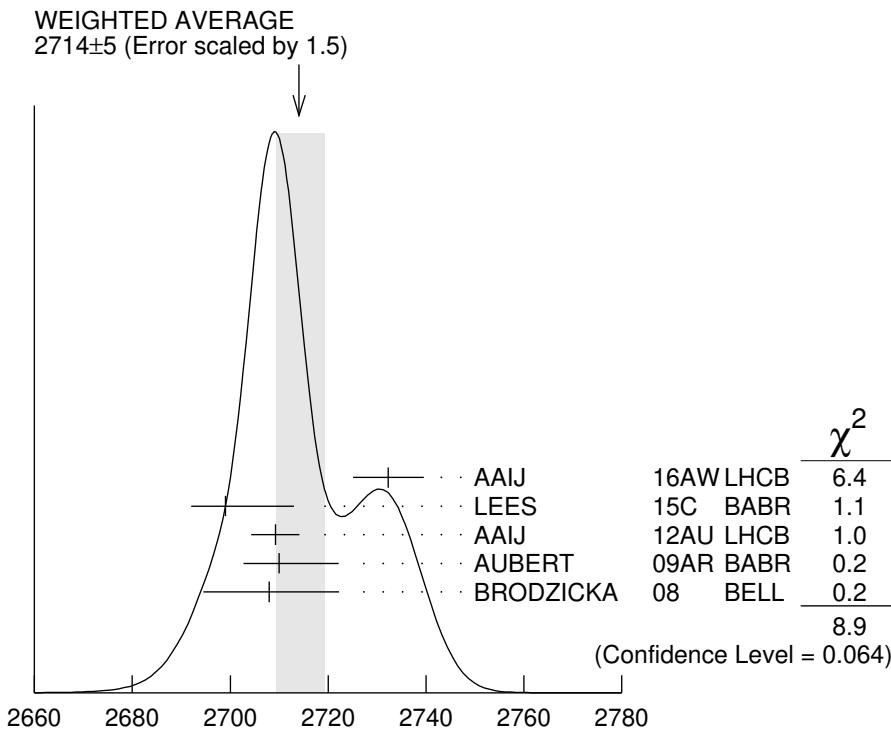


$D_{s1}^*(2700)^{\pm}$

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

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

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2714 ± 5 OUR AVERAGE				Error includes scale factor of 1.5. See the ideogram below.
2732.3 ± 4.3 ± 5.8	15.7k	AAIJ	16AW LHCb	$p p \rightarrow D^* K_S^0 X$ at 7, 8 TeV
2699 $\begin{array}{l} +14 \\ -7 \end{array}$		1 LEES	15C BABR	$B \rightarrow D D^0 K^+$
2709.2 ± 1.9 ± 4.5	52k	2 AAIJ	12AU LHCb	$p p \rightarrow (D K)^+ X$ at 7 TeV
2710 ± 2 $\begin{array}{l} +12 \\ -7 \end{array}$	10.4k	3 AUBERT	09AR BABR	$e^+ e^- \rightarrow D^{(*)} K X$
2708 ± 9 $\begin{array}{l} +11 \\ -10 \end{array}$	182	BRODZICKA	08 BELL	$B^+ \rightarrow D^0 \bar{D}^0 K^+$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
2694 ± 8 $\begin{array}{l} +13 \\ -3 \end{array}$		LEES	15C BABR	$B^0 \rightarrow D^- D^0 K^+$
2707 ± 8 ± 8		LEES	15C BABR	$B^+ \rightarrow \bar{D}^0 D^0 K^+$
2688 ± 4 ± 3		4 AUBERT,BE	06E BABR	10.6 $e^+ e^- \rightarrow D K X$



¹ From a combined analysis of $B^0 \rightarrow D^- D^0 K^+$ and $B^+ \rightarrow \bar{D}^0 D^0 K^+$.

² From the combined fit of the $D^+ K_S^0$ and $D^0 K^+$ modes in the model including the $D_{s2}^*(2573)^+$, $D_{s1}^*(2700)^+$ and spin-0 $D_{sJ}^*(2860)^+$.

³ From simultaneous fits to the two DK mass spectra and to the total D^*K mass spectrum.

⁴ Superseded by AUBERT 09AR.

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

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
122 ± 10 OUR AVERAGE				
136 ± 19	± 24	15.7k	AAIJ	16AW LHCb $p p \rightarrow D^{*+} K_S^0 X$ at 7, 8 TeV
127 $\begin{array}{l} +24 \\ -19 \end{array}$			¹ LEES	15C BABR $B \rightarrow D D^0 K^+$
115.8 ± 7.3 ± 12.1	52k	² AAIJ	12AU LHCb	$p p \rightarrow (DK)^+ X$ at 7 TeV
149 ± 7 $\begin{array}{l} +39 \\ -52 \end{array}$	10.4k	³ AUBERT	09AR BABR	$e^+ e^- \rightarrow D^{(*)} K X$
108 ± 23 $\begin{array}{l} +36 \\ -31 \end{array}$	182	BRODZICKA 08	BELL	$B^+ \rightarrow D^0 \bar{D}^0 K^+$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
145 ± 24 $\begin{array}{l} +22 \\ -14 \end{array}$		LEES	15C BABR	$B^0 \rightarrow D^- D^0 K^+$
113 ± 21 $\begin{array}{l} +20 \\ -16 \end{array}$		LEES	15C BABR	$B^+ \rightarrow \bar{D}^0 D^0 K^+$
112 ± 7 ± 36		⁴ AUBERT,BE 06E	BABR	10.6 $e^+ e^- \rightarrow DK X$

¹ From a combined analysis of $B^0 \rightarrow D^- D^0 K^+$ and $B^+ \rightarrow \bar{D}^0 D^0 K^+$.

² From the combined fit of the $D^+ K_S^0$ and $D^0 K^+$ modes in the model including the $D_{s2}^*(2573)^+$, $D_{s1}^*(2700)^+$ and spin-0 $D_{sJ}^*(2860)^+$.

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	Fraction (Γ_i/Γ)
$\Gamma_1 DK$	
$\Gamma_2 D^0 K^+$	seen
$\Gamma_3 D^+ K_S^0$	seen
$\Gamma_4 D^* K$	
$\Gamma_5 D^{*0} K^+$	seen
$\Gamma_6 D^{*+} K_S^0$	seen

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

$\Gamma(D^*K)/\Gamma(DK)$	Γ_4/Γ_1
0.91 ± 0.13 ± 0.12	1 AUBERT 09AR BABR $e^+ e^- \rightarrow D^{(*)} K X$

¹ 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
VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
0.88±0.14±0.14	7716	¹ AUBERT	09AR BABR	$e^+ e^- \rightarrow D^{(*)} K X$

¹ 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
VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
1.14±0.39±0.23	2700	¹ AUBERT	09AR BABR	$e^+ e^- \rightarrow D^{(*)} K X$

¹ From the $D^{*+} K_S^0$ and $D^+ K_S^0$, where $D^{*+} \rightarrow D^+ \pi^0$.

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

AAIJ	16AW	JHEP 1602 133	R. Aaij <i>et al.</i>	(LHCb Collab.)
LEES	15C	PR D91 052002	J.P. Lees <i>et al.</i>	(BABAR Collab.)
AAIJ	12AU	JHEP 1210 151	R. Aaij <i>et al.</i>	(LHCb Collab.)
AUBERT	09AR	PR D80 092003	B. Aubert <i>et al.</i>	(BABAR Collab.)
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.)