$D^*_{sJ}(2860)^\pm$

$I(J^P) = 0(?^?)$

OMITTED FROM SUMMARY TABLE

Observed by AUBERT,BE 06E and AUBERT 09AR in inclusive production of DK and D^*K in e^+e^- annihilation. J^P is natural.

$D^*_{sJ}(2860)^+$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
2862 ±2 $^{+5}_{-2}$	3122	[1] AUBERT	09AR	BABR	$e^+e^- \to D^{(*)}KX$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
2856.6±1.5±5.0		[2] AUBERT,BE	06E	BABR	$e^+e^- \to DKX$

[1] From simultaneous fits to the two DK mass spectra and to the total D^*K mass spectrum.
[2] Superseded by AUBERT 09AR.

$D^*_{sJ}(2860)^+$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
48±3± 6	3122	[3] AUBERT	09AR	BABR	$e^+e^- \to D^{(*)}KX$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
47±7±10		[4] AUBERT,BE	06E	BABR	$e^+e^- \to DKX$

[3] From simultaneous fits to the two DK mass spectra and to the total D^*K mass spectrum.
[4] Superseded by AUBERT 09AR.

$D^*_{sJ}(2860)^\pm$ DECAY MODES

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

$D^*_{sJ}(2860)^\pm$ BRANCHING RATIOS

$\Gamma(D^*K)/\Gamma(DK)$ Γ_4/Γ_1

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
1.10±0.15±0.19	3122	[5] AUBERT	09AR	BABR	$e^+e^- \to D^{(*)}KX$

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

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

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
$1.04\pm0.17\pm0.20$	2241	[6] AUBERT	09AR BABR	$e^+e^- \to D^{(*)}KX$

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

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

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
$1.38\pm0.35\pm0.49$	881	[7] AUBERT	09AR BABR	$e^+e^- \to D^{(*)}KX$

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

$D^*_{sJ}(2860)^\pm$ REFERENCES

AUBERT	09AR	PR D80 092003	B. Aubert *et al.*	(BABAR Collb.)
AUBERT,BE	06E	PRL 97 222001	B. Aubert *et al.*	(BABAR Collab.)