

$D_{sJ}(2573)^\pm$

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

J^P is natural, width and decay modes consistent with 2^+ .

$D_{sJ}(2573)^\pm$ MASS

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
2572.4 ± 1.5 OUR AVERAGE					
2568.6 ± 3.2	64	¹ HEISTER	02B ALEP		$e^+e^- \rightarrow D^0 K^+ X$
2574.5 ± 3.3 ± 1.6		ALBRECHT	96 ARG		$e^+e^- \rightarrow D^0 K^+ X$
2573.2 ^{+1.7} _{-1.6} ± 0.9	217	KUBOTA	94 CLE2	+	$e^+e^- \sim 10.5$ GeV

¹ Calculated using $m_{D^0} = 1864.5 \pm 0.5$ and the mass difference below.

$m_{D_{sJ}(2573)^\pm} - m_{D^0}$

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
704 ± 3 ± 1	64	HEISTER	02B ALEP	$e^+e^- \rightarrow D^0 K^+ X$

$D_{sJ}(2573)^\pm$ WIDTH

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
15⁺⁵₋₄ OUR AVERAGE					
10.4 ± 8.3 ± 3.0		ALBRECHT	96 ARG		$e^+e^- \rightarrow D^0 K^+ X$
16 ⁺⁵ ₋₄ ± 3	217	KUBOTA	94 CLE2	+	$e^+e^- \sim 10.5$ GeV

$D_{sJ}(2573)^+$ DECAY MODES

$D_{sJ}(2573)^-$ modes are charge conjugates of the modes below.

Mode	Fraction (Γ_i/Γ)
Γ_1 $D^0 K^+$	seen
Γ_2 $D^*(2007)^0 K^+$	not seen

$D_{sJ}(2573)^+$ BRANCHING RATIOS

$\Gamma(D^0 K^+)/\Gamma_{\text{total}}$						Γ_1/Γ
<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
seen	217	KUBOTA	94 CLE2	±	$e^+e^- \sim 10.5$ GeV	

$\Gamma(D^*(2007)^0 K^+)/\Gamma(D^0 K^+)$						Γ_2/Γ_1
<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
<0.33	90	KUBOTA	94 CLE2	+	$e^+e^- \sim 10.5$ GeV	

$D_{sJ}(2573)^\pm$ REFERENCES

HEISTER	02B	PL B526 34	A. Heister <i>et al.</i>	(ALEPH Collab.)
ALBRECHT	96	ZPHY C69 405	H. Albrecht <i>et al.</i>	(ARGUS Collab.)
KUBOTA	94	PRL 72 1972	Y. Kubota <i>et al.</i>	(CLEO Collab.)

OTHER RELATED PAPERS

SEMENOV	99	SPU 42 847	S.V. Semenov
		Translated from UFN 42 937.	
