$D_{s2}(2573)^{\pm}$

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

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

$D_{s2}(2573)^{\pm}$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
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		$e^+e^- \rightarrow D^0 K^+ X$
$2573.2^{+1.7}_{-1.6}\pm0.9$	217	KUBOTA	94	CLE2	+	$e^+e^- \sim$ 10.5 GeV

[1] Calculated using m_{D^0}= 1864.5 ± 0.5 and the mass difference below.

$m_{D_{s2}(2573)^{\pm}} - m_{D^0}$

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

$D_{s2}(2573)^{\pm}$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
$15\ ^{+5}_{-4}$ OUR AVERAGE						
10.4±8.3±3.0		ALBRECHT	96	ARG		$e^+e^- \rightarrow D^0 K^+ X$
$16\ ^{+5}_{-4}\ \pm3$	217	KUBOTA	94	CLE2	+	$e^+e^- \sim$ 10.5 GeV

$D_{s2}(2573)^{+}$ DECAY MODES

$D_{s2}(2573)^-$ 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

$D_{s2}(2573)^{+}$ BRANCHING RATIOS

$\Gamma(D^0 K^+)/\Gamma_{\text{total}}$ — Γ_1/Γ

VALUE	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
seen	217	KUBOTA	94	CLE2	±	$e^+e^- \sim$ 10.5 GeV

$\Gamma(D^*(2007)^0 K^+)/\Gamma(D^0 K^+)$ — Γ_2/Γ_1

VALUE	CL%	DOCUMENT ID		TECN	CHG	COMMENT
<0.33	90	KUBOTA	94	CLE2	+	$e^+e^- \sim$ 10.5 GeV

$D_{s2}(2573)^{\pm}$ REFERENCES

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

OTHER RELATED PAPERS

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