$D_2^*(2460)^0$

$I(J^P) = \frac{1}{2}(2^+)$

$J^P = 2^+$ assignment strongly favored (ALBRECHT 89B).

$D_2^*(2460)0$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
2458.9±2.0 OUR AVERAGE	Error includes scale factor of 1.2.				
2465 ±3 ±3	486	AVERY	94C	CLE2	$e^+e^- \to D^+\pi^- X$
2453 ±3 ±2	128	FRABETTI	94B	E687	γ Be $\to D^+\pi^- X$
2461 ±3 ±1	440	AVERY	90	CLEO	$e^+e^- \to D^{*+}\pi^- X$
2455 ±3 ±5	337	ALBRECHT	89B	ARG	$e^+e^- \to D^+\pi^- X$
2459 ±3 ±2	153	ANJOS	89C	TPS	$\gamma N \to D^+\pi^- X$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
2461 ±6	126	[1] ABREU	98M	DLPH	e^+e^-
2466 ±7	1	ASRATYAN	95	BEBC	53,40 $\nu(\overline{\nu}) \to p + X$, $d + X$

[1] No systematic error given.

$D_2^*(2460)^0$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
23± 5 OUR AVERAGE					
$28^{+8}_{-7} \pm 6$	486	AVERY	94C	CLE2	$e^+e^- \to D^+\pi^- X$
25±10± 5	128	FRABETTI	94B	E687	γ Be $\to D^+\pi^- X$
$20^{+9}_{-12}{}^{+9}_{-10}$	440	AVERY	90	CLEO	$e^+e^- \to D^{*+}\pi^- X$
$15^{+13}_{-10}{}^{+5}_{-10}$	337	ALBRECHT	89B	ARG	$e^+e^- \to D^+\pi^- X$
20±10± 5	153	ANJOS	89C	TPS	$\gamma N \to D^+\pi^- X$

$D_2^*(2460)^0$ DECAY MODES

$\overline{D}_2^*(2460)^0$ modes are charge conjugates of modes below.

	Mode	Fraction (Γ_i/Γ)
Γ_1	$D^+\pi^-$	seen
Γ_2	$D^*(2010)^+\pi^-$	seen

$D_2^*(2460)^0$ BRANCHING RATIOS

$\Gamma(D^+\pi^-)/\Gamma_{total}$ — Γ_1/Γ

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
seen	337	ALBRECHT	89B	ARG	$e^+e^- \to D^+\pi^- X$
seen		ANJOS	89C	TPS	$\gamma N \to D^+\pi^- X$

$\Gamma(D^*(2010)^+\pi^-)/\Gamma_{total}$ — Γ_2/Γ

VALUE	DOCUMENT ID		TECN	COMMENT
seen	ACKERSTAFF	97W	OPAL	$e^+e^- \to D^{*+}\pi^- X$
seen	AVERY	90	CLEO	$e^+e^- \to D^{*+}\pi^- X$
seen	ALBRECHT	89H	ARG	$e^+e^- \to D^*\pi^- X$

$\Gamma(D^+\pi^-)/\Gamma(D^*(2010)^+\pi^-)$ — Γ_1/Γ_2

VALUE	DOCUMENT ID		TECN	COMMENT
2.3±0.6 OUR AVERAGE				
2.2±0.7±0.6	AVERY	94C	CLE2	$e^+e^- \to D^{*+}\pi^- X$
2.3±0.8	AVERY	90	CLEO	e^+e^-
3.0±1.1±1.5	ALBRECHT	89H	ARG	$e^+e^- \to D^*\pi^- X$

$D_2^*(2460)^0$ REFERENCES

ABREU	98M	PL B426 231	P. Abreu et al.	(DELPHI Collab.)
ACKERSTAFF	97W	ZPHY C76 425	K. Ackerstaff et al.	(OPAL Collab.)
ASRATYAN	95	ZPHY C68 43	A.E. Asratyan et al.	(BIRM, BELG, CERN+)
AVERY	94C	PL B331 236	P. Avery et al.	(CLEO Collab.)
FRABETTI	94B	PRL 72 324	P.L. Frabetti et al.	(FNAL E687 Collab.)
AVERY	90	PR D41 774	P. Avery, D. Besson	(CLEO Collab.)
ALBRECHT	89B	PL B221 422	H. Albrecht et al.	(ARGUS Collab.) JP
ALBRECHT	89H	PL B232 398	H. Albrecht et al.	(ARGUS Collab.) JP
ANJOS	89C	PRL 62 1717	J.C. Anjos et al.	(FNAL E691 Collab.)

OTHER RELATED PAPERS

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