$D_2^*(2460)^0$

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

$J^P = 2^+$ 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	$e^+e^- \rightarrow D^+\pi^-X$
2453 ±3 ±2	128	FRABETTI	94B	E687	$\gamma\,\mathrm{Be} \rightarrow D^+\pi^-X$
2461 ±3 ±1	440	AVERY	90	CLEO	$e^+e^- \rightarrow D^{*+}\pi^-X$
2455 ±3 ±5	337	ALBRECHT	89B	ARG	$e^+e^- \rightarrow D^+\pi^-X$
2459 ±3 ±2	153	ANJOS	89C	TPS	$\gamma N \rightarrow D^+\pi^-X$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
2466 ±7	1	ASRATYAN	95	BEBC	53,40 $\nu(\overline{\nu}) \rightarrow p+X$, $d+X$

$D_2^*(2460)^0$ WIDTH

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

$D_2^*(2460)^0$ 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

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

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

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

VALUE	DOCUMENT ID		TECN	COMMENT
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

ASRATYAN	95	ZPHY C68 43	+	(BIRM, BELG, CERN, SERP, ITEP, MPIM, RAL)
AVERY	94C	PL B331 236	+Freyberger, Rodriguez+	(CLEO Collab.)
FRABETTI	94B	PRL 72 324	+Cheung, Cumalat+	(FNAL E687 Collab.)
AVERY	90	PR D41 774	+Besson	(CLEO Collab.)
ALBRECHT	89B	PL B221 422	+Boeckmann+	(ARGUS Collab.) JP
ALBRECHT	89H	PL B232 398	+Glaser, Harder+	(ARGUS Collab.) JP
ANJOS	89C	PRL 62 1717	+Appel+	(FNAL E691 Collab.)