

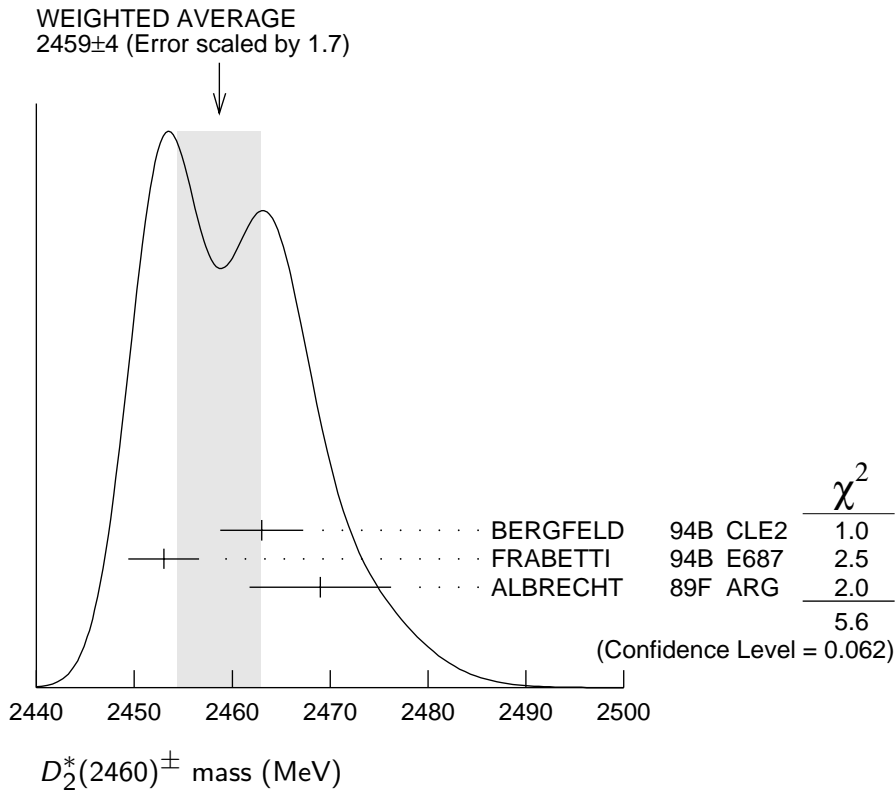
$D_2^*(2460)^\pm$

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

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

$D_2^*(2460)^\pm$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2459±4 OUR AVERAGE				Error includes scale factor of 1.7. See the ideogram below.
2463±3±3	310	BERGFELD	94B CLE2	$e^+e^- \rightarrow D^0\pi^+X$
2453±3±2	185	FRABETTI	94B E687	$\gamma\text{Be} \rightarrow D^0\pi^+X$
2469±4±6		ALBRECHT	89F ARG	$e^+e^- \rightarrow D^0\pi^+X$



$m_{D_2^*(2460)^\pm} - m_{D_2^*(2460)^0}$

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
0.9±3.3 OUR AVERAGE			Error includes scale factor of 1.1.
- 2 ±4 ±4	BERGFELD	94B CLE2	$e^+e^- \rightarrow \text{hadrons}$
0 ±4	FRABETTI	94B E687	$\gamma\text{Be} \rightarrow D\pi X$
14 ±5 ±8	ALBRECHT	89F ARG	$e^+e^- \rightarrow D^0\pi^+X$

$D_2^*(2460)^\pm$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
25^{+8}_{-7} OUR AVERAGE				
$27^{+11}_{-8} \pm 5$	310	BERGFELD	94B CLE2	$e^+ e^- \rightarrow D^0 \pi^+ X$
$23 \pm 9 \pm 5$	185	FRABETTI	94B E687	$\gamma \text{Be} \rightarrow D^0 \pi^+ X$

$D_2^*(2460)^\pm$ DECAY MODES

$D_2^*(2460)^-$ modes are charge conjugates of modes below.

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad D^0 \pi^+$	seen
$\Gamma_2 \quad D^{*0} \pi^+$	seen

$D_2^*(2460)^\pm$ BRANCHING RATIOS

$\Gamma(D^0 \pi^+)/\Gamma_{\text{total}}$				Γ_1/Γ
VALUE	DOCUMENT ID	TECN	COMMENT	
seen	ALBRECHT	89F ARG	$e^+ e^- \rightarrow D^0 \pi^+ X$	
$\Gamma(D^0 \pi^+)/\Gamma(D^{*0} \pi^+)$				Γ_1/Γ_2
VALUE	DOCUMENT ID	TECN	COMMENT	
$1.9 \pm 1.1 \pm 0.3$	BERGFELD	94B CLE2	$e^+ e^- \rightarrow \text{hadrons}$	

$D_2^*(2460)^\pm$ REFERENCES

BERGFELD	94B	PL B340 194	T. Bergfeld <i>et al.</i>	(CLEO Collab.)
FRABETTI	94B	PRL 72 324	P.L. Frabetti <i>et al.</i>	(FNAL E687 Collab.)
ALBRECHT	89B	PL B221 422	H. Albrecht <i>et al.</i>	(ARGUS Collab.)
ALBRECHT	89F	PL B231 208	H. Albrecht <i>et al.</i>	(ARGUS Collab.)