

$D_2^*(2460)^\pm$

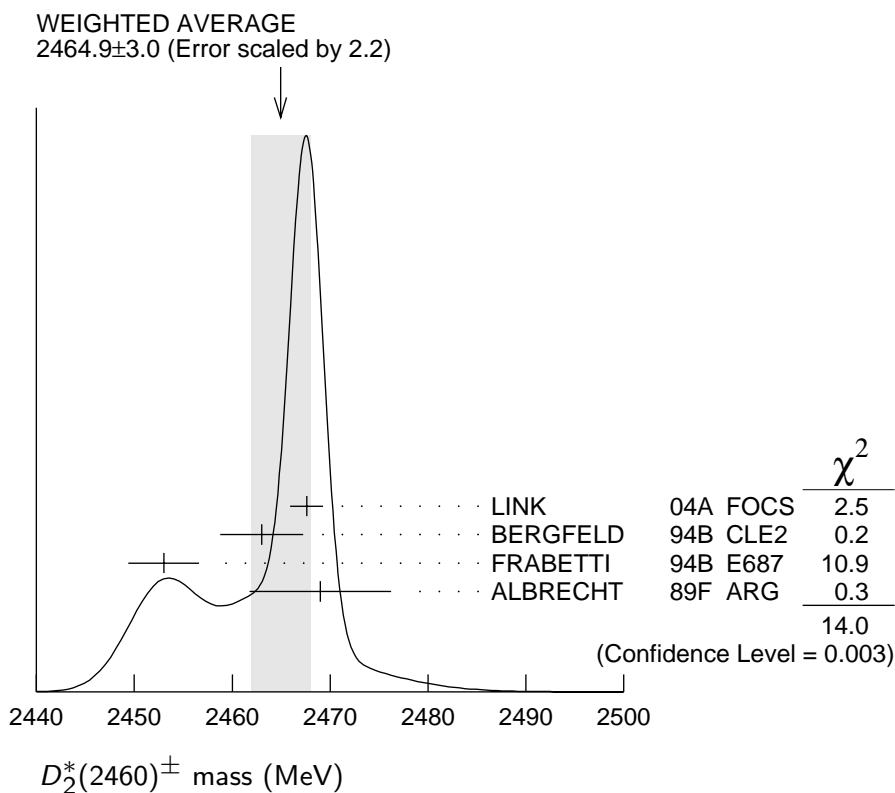
$$I(J^P) = \frac{1}{2}(2^+)$$

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

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

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2464.9 ± 3.0 OUR AVERAGE		Error includes scale factor of 2.2.		See the ideogram below.
2467.6 ± 1.5 ± 0.76	3.5k	¹ LINK	04A FOCS	γA
2463 ± 3 ± 3	310	BERGFELD	94B CLE2	$e^+ e^- \rightarrow D^0 \pi^+ X$
2453 ± 3 ± 2	185	FRABETTI	94B E687	$\gamma Be \rightarrow D^0 \pi^+ X$
2469 ± 4 ± 6		ALBRECHT	89F ARG	$e^+ e^- \rightarrow D^0 \pi^+ X$

¹ Fit includes the contribution from $D_0^*(2400)^\pm$.



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

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
2.4 ± 1.7 OUR AVERAGE			
3.1 ± 1.9 ± 0.9	LINK	04A FOCS	γA
- 2 ± 4 ± 4	BERGFELD	94B CLE2	$e^+ e^- \rightarrow \text{hadrons}$
0 ± 4	FRABETTI	94B E687	$\gamma Be \rightarrow D \pi X$
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
29 ± 5	OUR AVERAGE			
34.1 ± 6.5 ± 4.2	3.5k	² LINK	04A FOCUS	γ A
27 $\begin{smallmatrix} +11 \\ -8 \end{smallmatrix}$ ± 5	310	BERGFELD	94B CLE2	$e^+ e^- \rightarrow D^0 \pi^+ X$
23 ± 9 ± 5	185	FRABETTI	94B E687	γ Be $\rightarrow D^0 \pi^+ X$

² Fit includes the contribution from $D_0^*(2400)^\pm$.

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

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

Mode	Fraction (Γ_i/Γ)
Γ_1 $D^0 \pi^+$	seen
Γ_2 $D^{*0} \pi^+$	seen

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

$\Gamma(D^0 \pi^+)/\Gamma_{\text{total}}$	VALUE	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
seen		ALBRECHT	89F ARG	$e^+ e^- \rightarrow D^0 \pi^+ X$	

$\Gamma(D^0 \pi^+)/\Gamma(D^{*0} \pi^+)$	VALUE	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ_2
1.9 ± 1.1 ± 0.3		BERGFELD	94B CLE2	$e^+ e^- \rightarrow$ hadrons	

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

LINK	04A PL B586 11	J.M. Link <i>et al.</i>	(FOCUS Collab.)
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.)