

$D_2^*(2460)^0$

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

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

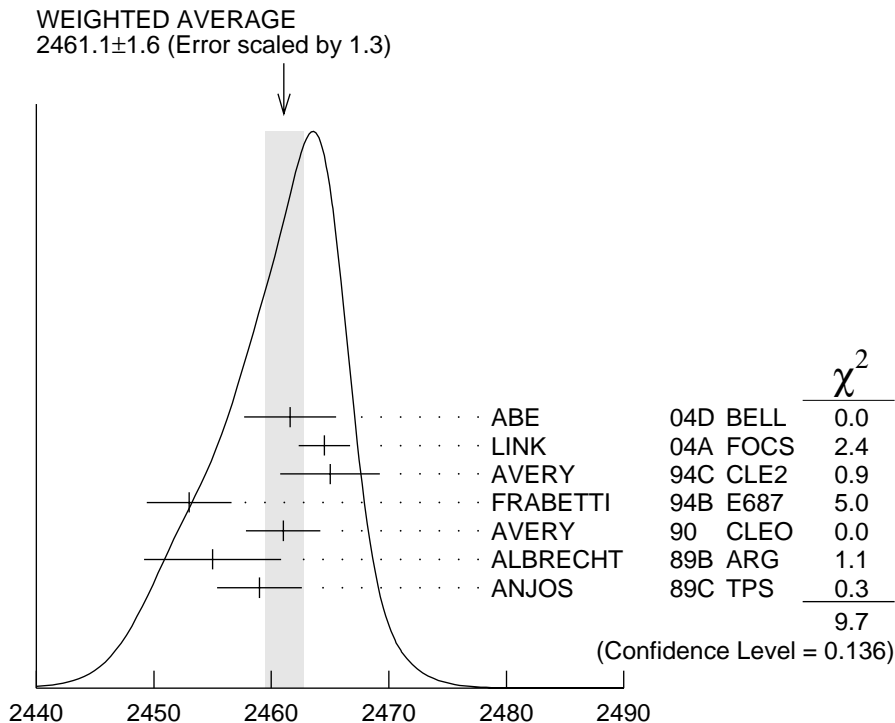
$D_2^*(2460)^0$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2461.1±1.6 OUR AVERAGE Error includes scale factor of 1.3. See the ideogram below.				
2461.6±2.1±3.3		¹ ABE	04D BELL	$B^- \rightarrow D^+ \pi^- \pi^-$
2464.5±1.1±1.9	5.8k	² LINK	04A FOCS	γA
2465 ±3 ±3	486	AVERY	94C CLE2	$e^+ e^- \rightarrow D^+ \pi^- X$
2453 ±3 ±2	128	FRABETTI	94B E687	$\gamma Be \rightarrow D^+ \pi^- X$
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. ● ● ●				
2461 ±6	126	³ ABREU	98M DLPH	$e^+ e^-$
2466 ±7	1	ASRATYAN	95 BEBC	$53,40 \nu(\bar{\nu}) \rightarrow p + X, d + X$

¹ Fit includes the contribution from $D_0^*(2400)^0$.

² Fit includes the contribution from $D_0^*(2400)^0$.

³ No systematic error given.



THE IDEOGRAM SUBTITLE IS MISSING.

$D_2^*(2460)^0$ WIDTH

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
32 ± 4 OUR AVERAGE	Error	includes scale factor of 1.2.		
45.6 ± 4.4 ± 6.7		⁴ ABE	04D BELL	$B^- \rightarrow D^+ \pi^- \pi^-$
38.7 ± 5.3 ± 2.9	5.8k	⁵ LINK	04A FOCS	γA
28 $\begin{smallmatrix} +8 \\ -7 \end{smallmatrix}$ ± 6	486	AVERY	94C CLE2	$e^+ e^- \rightarrow D^+ \pi^- X$
25 ± 10 ± 5	128	FRABETTI	94B E687	$\gamma Be \rightarrow D^+ \pi^- X$
20 $\begin{smallmatrix} +9 & +9 \\ -12 & -10 \end{smallmatrix}$	440	AVERY	90 CLEO	$e^+ e^- \rightarrow D^{*+} \pi^- X$
15 $\begin{smallmatrix} +13 & +5 \\ -10 & -10 \end{smallmatrix}$	337	ALBRECHT	89B ARG	$e^+ e^- \rightarrow D^+ \pi^- X$
20 ± 10 ± 5	153	ANJOS	89C TPS	$\gamma N \rightarrow D^+ \pi^- X$

⁴ Fit includes the contribution from $D_0^*(2400)^0$.

⁵ Fit includes the contribution from $D_0^*(2400)^0$.

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

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

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad D^+ \pi^-$	seen
$\Gamma_2 \quad D^*(2010)^+ \pi^-$	seen

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

$\Gamma(D^+ \pi^-)/\Gamma_{\text{total}}$				Γ_1/Γ
<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
seen	337	ALBRECHT	89B ARG	$e^+ e^- \rightarrow D^+ \pi^- X$
seen		ANJOS	89C TPS	$\gamma N \rightarrow D^+ \pi^- X$

$\Gamma(D^*(2010)^+ \pi^-)/\Gamma_{\text{total}}$				Γ_2/Γ
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
seen	ACKERSTAFF	97W OPAL	$e^+ e^- \rightarrow D^{*+} \pi^- X$	
seen	AVERY	90 CLEO	$e^+ e^- \rightarrow D^{*+} \pi^- X$	
seen	ALBRECHT	89H ARG	$e^+ e^- \rightarrow D^* \pi^- X$	

$\Gamma(D^+ \pi^-)/\Gamma(D^*(2010)^+ \pi^-)$				Γ_1/Γ_2
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
2.3 ± 0.6 OUR AVERAGE				
2.2 ± 0.7 ± 0.6	AVERY	94C CLE2	$e^+ e^- \rightarrow D^{*+} \pi^- X$	
2.3 ± 0.8	AVERY	90 CLEO	$e^+ e^-$	
3.0 ± 1.1 ± 1.5	ALBRECHT	89H ARG	$e^+ e^- \rightarrow D^* \pi^- X$	
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1.9 ± 0.5	ABE	04D BELL	$B^- \rightarrow D^{(*)+} \pi^- \pi^-$	

$D_2^*(2460)^0$ REFERENCES

ABE	04D	PR D69 112002	K. Abe <i>et al.</i>	(BELLE Collab.)
LINK	04A	PL B586 11	J.M. Link <i>et al.</i>	(FOCUS Collab.)
ABREU	98M	PL B426 231	P. Abreu <i>et al.</i>	(DELPHI Collab.)
ACKERSTAFF	97W	ZPHY C76 425	K. Ackerstaff <i>et al.</i>	(OPAL Collab.)
ASRATYAN	95	ZPHY C68 43	A.E. Asratyan <i>et al.</i>	(BIRM, BELG, CERN+)
AVERY	94C	PL B331 236	P. Avery <i>et al.</i>	(CLEO Collab.)
FRABETTI	94B	PRL 72 324	P.L. Frabetti <i>et al.</i>	(FNAL E687 Collab.)
AVERY	90	PR D41 774	P. Avery, D. Besson	(CLEO Collab.)
ALBRECHT	89B	PL B221 422	H. Albrecht <i>et al.</i>	(ARGUS Collab.) JP
ALBRECHT	89H	PL B232 398	H. Albrecht <i>et al.</i>	(ARGUS Collab.) JP
ANJOS	89C	PRL 62 1717	J.C. Anjos <i>et al.</i>	(FNAL E691 Collab.)

OTHER RELATED PAPERS

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