$D_2^*(2460)^0$

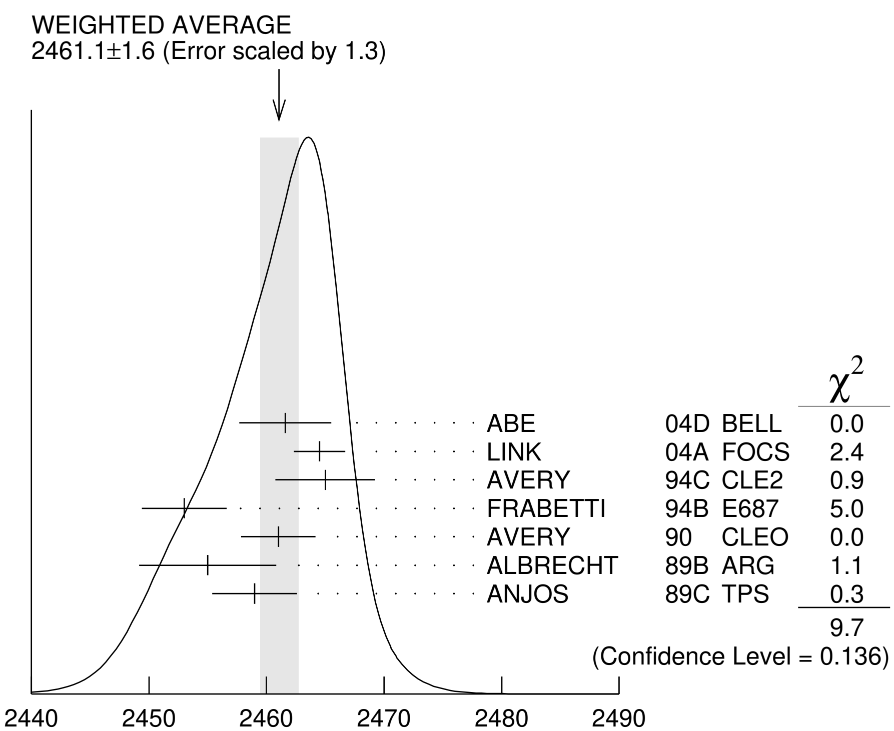
$I(J^P) = \frac{1}{2}(2^+)$

$J^P = 2^+$ 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	γ A
2465 ±3 ±3	486	AVERY 94C	CLE2	$e^+ e^- \rightarrow D^+ \pi^- X$
2453 ±3 ±2	128	FRABETTI 94B	E687	γ 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 $\nu(\overline{\nu}) \rightarrow p + X$, $d + X$

[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

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
32 ± 4 OUR AVERAGE	Error includes scale factor of 1.2.				
$45.6\pm 4.4\pm 6.7$		[4] ABE	04D	BELL	$B^- \to D^+\pi^-\pi^-$
$38.7\pm 5.3\pm 2.9$	5.8k	[5] LINK	04A	FOCS	γ A
$28\ ^{+8}_{-7}\ \pm 6$	486	AVERY	94C	CLE2	$e^+e^- \to D^+\pi^- X$
$25\ \pm 10\ \pm 5$	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	$e^+e^- \to D^+\pi^- X$
$20\ \pm 10\ \pm 5$	153	ANJOS	89C	TPS	$\gamma N \to D^+\pi^- X$

[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

$\overline{D}_2^*(2460)^0$ 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				
$2.2\pm 0.7\pm 0.6$	AVERY	94C	CLE2	$e^+e^- \to D^{*+}\pi^- X$
2.3 ± 0.8	AVERY	90	CLEO	e^+e^-
$3.0\pm 1.1\pm 1.5$	ALBRECHT	89H	ARG	$e^+e^- \to D^*\pi^- X$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1.9 ± 0.5	ABE	04D	BELL	$B^- \to D^{(*)+}\pi^-\pi^-$

$D_2^*(2460)^0$ REFERENCES

ABE	04D	PR D69 112002	K. Abe *et al.*	(BELLE Collab.)
LINK	04A	PL B586 11	J.M. Link *et al.*	(FOCUS Collab.)
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

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