

# $D_2^*(2460)$

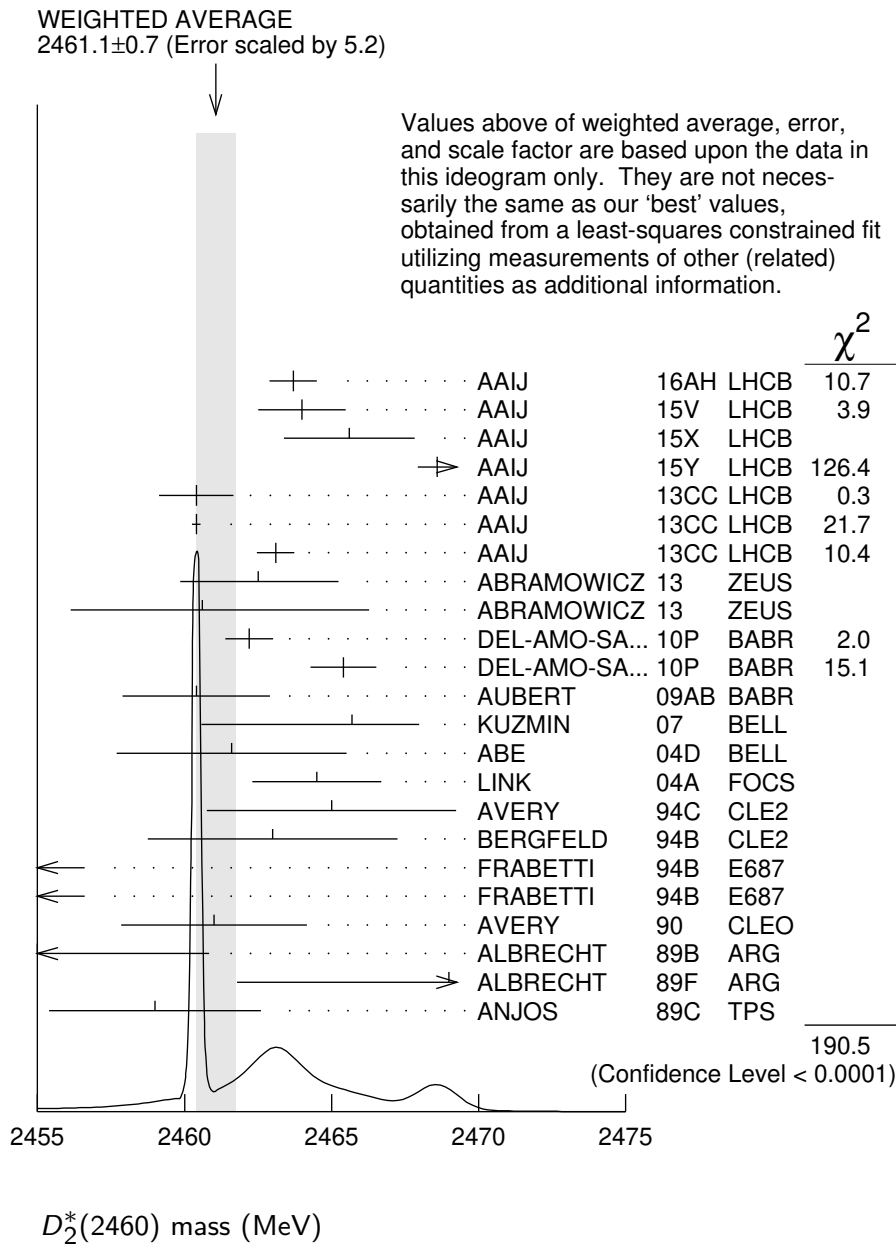
$$I(J^P) = \frac{1}{2}(2^+)$$

## $D_2^*(2460)$ MASS

The fit includes  $D^\pm, D^0, D_s^\pm, D^{*\pm}, D^{*0}, D_s^{*\pm}, D_1(2420)^0, D_2^*(2460)^0$ , and  $D_{s1}(2536)^\pm$  mass and mass difference measurements.

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
<b>2461.1±0.8 OUR FIT</b>		Error includes scale factor of 6.3.			
<b>2461.1±0.7 OUR AVERAGE</b>		Error includes scale factor of 5.2. See the ideogram below.			
2463.7±0.4±0.7	28k	<sup>1</sup> AAIJ	16AH LHCb	0	$B^- \rightarrow D^+ \pi^- \pi^-$
2464.0±1.4±0.5	2k	<sup>2</sup> AAIJ	15V LHCb	0	$B^- \rightarrow D^+ K^- \pi^-$
2465.6±1.8±1.3		<sup>3</sup> AAIJ	15X LHCb	+	$B^0 \rightarrow \bar{D}^0 K^+ \pi^-$
2468.6±0.6±0.3		<sup>4</sup> AAIJ	15Y LHCb	+	$B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$
2460.4±0.4±1.2	82k	AAIJ	13CC LHCb	0	$pp \rightarrow D^{*+} \pi^- X$
2460.4±0.1±0.1	675k	AAIJ	13CC LHCb	0	$pp \rightarrow D^+ \pi^- X$
2463.1±0.2±0.6	342k	AAIJ	13CC LHCb	+	$pp \rightarrow D^0 \pi^+ X$
2462.5±2.4 <sup>+1.3</sup> <sub>-1.1</sub>	2.3k	<sup>5</sup> ABRAMOWICZ13	ZEUS	0	$e^\pm p \rightarrow D^{(*)+} \pi^- X$
2460.6±4.4 <sup>+3.6</sup> <sub>-0.8</sub>	1371	<sup>6</sup> ABRAMOWICZ13	ZEUS	+	$e^\pm p \rightarrow D^{(*)0} \pi^+ X$
2462.2±0.1±0.8	243k	DEL-AMO-SA...10P	BABR	0	$e^+ e^- \rightarrow D^+ \pi^- X$
2465.4±0.2±1.1	111k	<sup>7</sup> DEL-AMO-SA...10P	BABR	+	$e^+ e^- \rightarrow D^0 \pi^+ X$
2460.4±1.2±2.2	3.4k	AUBERT	09AB BABR	0	$B^- \rightarrow D^+ \pi^- \pi^-$
2465.7±1.8 <sup>+1.4</sup> <sub>-4.8</sub>	2909	KUZMIN	07 BELL	+	$e^+ e^- \rightarrow \text{hadrons}$
2461.6±2.1±3.3		<sup>8</sup> ABE	04D BELL	0	$B^- \rightarrow D^+ \pi^- \pi^-$
2464.5±1.1±1.9	5.8k	<sup>8</sup> LINK	04A FOCS	0	$\gamma A$
2465 ±3 ±3	486	AVERY	94C CLE2	0	$e^+ e^- \rightarrow D^+ \pi^- X$
2463 ±3 ±3	310	BERGFELD	94B CLE2	+	$e^+ e^- \rightarrow D^0 \pi^+ X$
2453 ±3 ±2	128	FRABETTI	94B E687	0	$\gamma Be \rightarrow D^+ \pi^- X$
2453 ±3 ±2	185	FRABETTI	94B E687	+	$\gamma Be \rightarrow D^0 \pi^+ X$
2461 ±3 ±1	440	AVERY	90 CLEO	0	$e^+ e^- \rightarrow D^{*+} \pi^- X$
2455 ±3 ±5	337	ALBRECHT	89B ARG	0	$e^+ e^- \rightarrow D^+ \pi^- X$
2469 ±4 ±6		ALBRECHT	89F ARG	+	$e^+ e^- \rightarrow D^0 \pi^+ X$
2459 ±3 ±2	153	ANJOS	89C TPS	0	$\gamma N \rightarrow D^+ \pi^- X$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
2468.1±0.6±0.5		<sup>9</sup> AAIJ	15Y LHCb	+	$B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$
2469.1±3.7 <sup>+1.2</sup> <sub>-1.3</sub>	1.5k	<sup>10</sup> CHEKANOV	09 ZEUS	0	$e^\pm p \rightarrow D^{(*)+} \pi^- X$
2463.3±0.6±0.8	20k	ABULENCIA	06A CDF	0	1900 $p\bar{p} \rightarrow D^+ \pi^- X$
2467.6±1.5±0.8	3.5k	<sup>11</sup> LINK	04A FOCS	+	$\gamma A$
2461 ±6	126	<sup>12</sup> ABREU	98M DLPH	0	$e^+ e^-$
2466 ±7	1	ASRATYAN	95 BEBC	0	53,40 $\nu(\bar{\nu}) \rightarrow pX, dX$

- <sup>1</sup> From the amplitude analysis in the model describing the  $D^+\pi^-$  wave together with virtual contributions from the  $D^*(2007)^0$  and  $B^{*0}$  states, and components corresponding to the  $D_2^*(2460)^0$ ,  $D_1^*(2680)^0$ ,  $D_3^*(2760)^0$ , and  $D_2^*(3000)^0$  resonances.
- <sup>2</sup> From the amplitude analysis in the model describing the  $D^+\pi^-$  wave together with virtual contributions from the  $D^*(2007)^0$  and  $B^{*0}$  states, nonresonant spin-0 and spin-1 components as well as the  $D_0^*(2400)^0$ ,  $D_2^*(2460)^0$  and  $D_1^*(2760)^0$  resonances.
- <sup>3</sup> From the Dalitz plot analysis including various  $K^*$  and  $D^{**}$  mesons as well as broad structures in the  $K\pi$   $S$ -wave and the  $D\pi$   $S$ - and  $P$ -waves.
- <sup>4</sup> Modeling the  $\pi^+\pi^-$   $S$ -wave with the Isobar formalism.
- <sup>5</sup> From the combined fit of the  $M(D^+\pi^-)$  and  $M(D^{*+}\pi^-)$  distributions. and  $A_{D_2}$  fixed to the theoretical prediction of  $-1$ .
- <sup>6</sup> From the fit of the  $M(D^0\pi^+)$  distribution. The widths of the  $D_1^+$  and  $D_2^{*+}$  are fixed to 25 MeV and 37 MeV, and  $A_{D_1}$  and  $A_{D_2}$  are fixed to the theoretical predictions of 3 and  $-1$ , respectively.
- <sup>7</sup> At a fixed width of 50.5 MeV.
- <sup>8</sup> Fit includes the contribution from  $D_0^*(2400)^0$ .
- <sup>9</sup> Modeling the  $\pi^+\pi^-$   $S$ -wave with the K-matrix formalism.
- <sup>10</sup> Calculated using the mass difference  $m(D_2^{*0}) - m(D^{*+})_{PDG}$  reported below and  $m(D^{*+})_{PDG} = 2010.27 \pm 0.17$  MeV. The 0.17 MeV uncertainty of the PDG mass value should be added to the experimental uncertainty of  ${}^{+1.2}_{-1.3}$  MeV.
- <sup>11</sup> Fit includes the contribution from  $D_0^*(2400)^\pm$ . Not independent of the corresponding mass difference measurement,  $(m_{D_2^*(2460)^\pm}) - (m_{D_2^*(2460)^0})$ .
- <sup>12</sup> No systematic error given.



$$m_{D_2^*(2460)^0} - m_{D^+}$$

The fit includes  $D^\pm$ ,  $D^0$ ,  $D_s^\pm$ ,  $D^{*\pm}$ ,  $D^{*0}$ ,  $D_s^{*\pm}$ ,  $D_1(2420)^0$ ,  $D_2^*(2460)^0$ , and  $D_{s1}(2536)^\pm$  mass and mass difference measurements.

VALUE (MeV)	EVTs	DOCUMENT ID	TECN	COMMENT
<b>591.5±0.8 OUR FIT</b>	Error includes scale factor of 6.0.			
<b>593.9±0.6±0.5</b>	20k	ABULENCIA	06A	CDF 1900 $p\bar{p} \rightarrow D^+ \pi^- X$

$$m_{D_2^*(2460)^0} - m_{D^{*+}}$$

The fit includes  $D^\pm$ ,  $D^0$ ,  $D_s^\pm$ ,  $D^{*\pm}$ ,  $D^{*0}$ ,  $D_s^{*\pm}$ ,  $D_1(2420)^0$ ,  $D_2^*(2460)^0$ , and  $D_{s1}(2536)^\pm$  mass and mass difference measurements.

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>450.9±0.8 OUR FIT</b>	Error includes scale factor of 6.0.			
<b>458.8±3.7<sup>+1.2</sup><sub>-1.3</sub></b>	1.5k	CHEKANOV	09	ZEUS $e^\pm p \rightarrow D^{(*)+} \pi^- X$

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

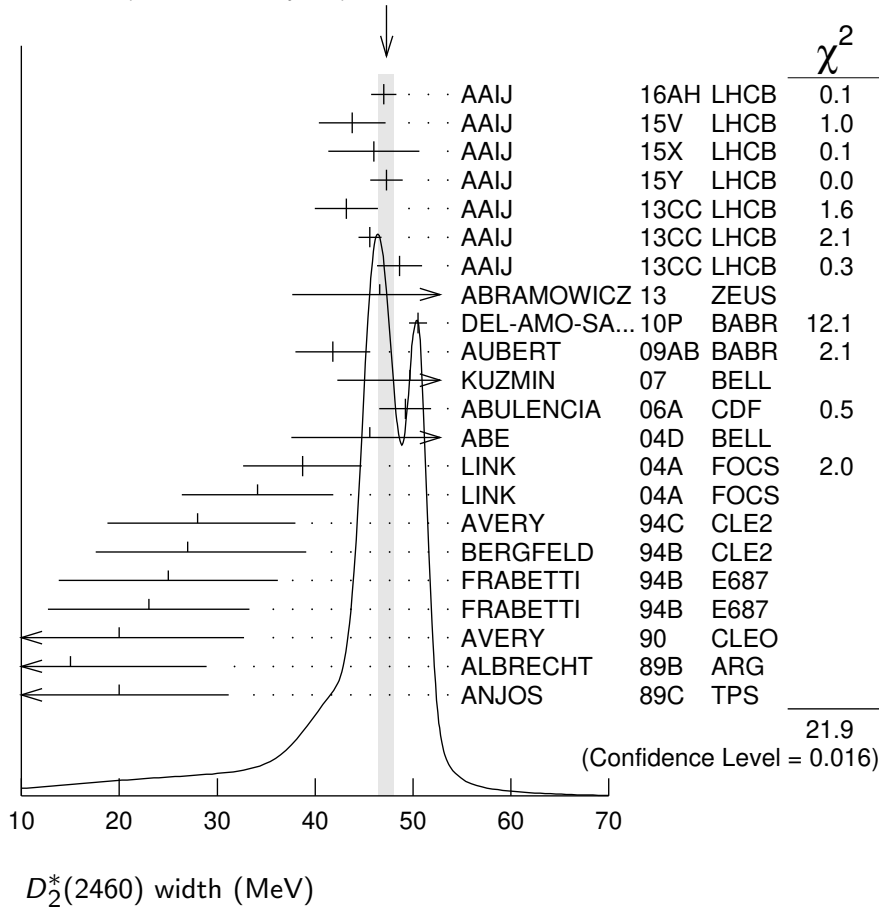
VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>2.4±1.7 OUR AVERAGE</b>			
3.1±1.9±0.9	LINK	04A	FOCS $\gamma A$
- 2 ±4 ±4	BERGFELD	94B	CLE2 $e^+ e^- \rightarrow$ hadrons
0 ±4	FRABETTI	94B	E687 $\gamma Be \rightarrow D \pi X$
14 ±5 ±8	ALBRECHT	89F	ARG $e^+ e^- \rightarrow D^0 \pi^+ X$

### $D_2^*(2460)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
<b>47.3± 0.8 OUR AVERAGE</b>		Error includes scale factor of 1.5. See the ideogram below.			
47.0± 0.8± 1.0	28k	<sup>1</sup> AAIJ	16AH	LHCB	0 $B^- \rightarrow D^+ \pi^- \pi^-$
43.8± 2.9± 1.8	2k	<sup>2</sup> AAIJ	15V	LHCB	0 $B^- \rightarrow D^+ K^- \pi^-$
46.0± 3.4± 3.2		<sup>3</sup> AAIJ	15X	LHCB	+ $B^0 \rightarrow \bar{D}^0 K^+ \pi^-$
47.3± 1.5± 0.7		<sup>4</sup> AAIJ	15Y	LHCB	+ $B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$
43.2± 1.2± 3.0	82k	AAIJ	13CC	LHCB	0 $p p \rightarrow D^{*+} \pi^- X$
45.6± 0.4± 1.1	675k	AAIJ	13CC	LHCB	0 $p p \rightarrow D^+ \pi^- X$
48.6± 1.3± 1.9	342k	AAIJ	13CC	LHCB	+ $p p \rightarrow D^0 \pi^+ X$
46.6± 8.1 <sup>+</sup> <sub>-3.8</sub>	5.9 2.3k	<sup>5</sup> ABRAMOWICZ13	ZEUS	0	$e^\pm p \rightarrow D^{(*)+} \pi^- X$
50.5± 0.6± 0.7	243k	DEL-AMO-SA..10P	BABR	0	$e^+ e^- \rightarrow D^+ \pi^- X$
41.8± 2.5± 2.9	3.4k	AUBERT	09AB	BABR	0 $B^- \rightarrow D^+ \pi^- \pi^-$
49.7± 3.8± 6.4	2909	KUZMIN	07	BELL	+ $e^+ e^- \rightarrow$ hadrons
49.2± 2.3± 1.3	20k	ABULENCIA	06A	CDF	0 1900 $p \bar{p} \rightarrow D^+ \pi^- X$
45.6± 4.4± 6.7		<sup>6</sup> ABE	04D	BELL	0 $B^- \rightarrow D^+ \pi^- \pi^-$
38.7± 5.3± 2.9	5.8k	<sup>6</sup> LINK	04A	FOCS	0 $\gamma A$
34.1± 6.5± 4.2	3.5k	<sup>7</sup> LINK	04A	FOCS	+ $\gamma A$
28 <sup>+</sup> <sub>-7</sub> ± 6	486	AVERY	94C	CLE2	0 $e^+ e^- \rightarrow D^+ \pi^- X$
27 <sup>+</sup> <sub>-8</sub> ± 5	310	BERGFELD	94B	CLE2	+ $e^+ e^- \rightarrow D^0 \pi^+ X$
25 ±10 ± 5	128	FRABETTI	94B	E687	0 $\gamma Be \rightarrow D^+ \pi^- X$
23 ± 9 ± 5	185	FRABETTI	94B	E687	+ $\gamma Be \rightarrow D^0 \pi^+ X$
20 <sup>+</sup> <sub>-12</sub> <sup>+</sup> <sub>-10</sub>	440	AVERY	90	CLEO	0 $e^+ e^- \rightarrow D^{*+} \pi^- X$
15 <sup>+</sup> <sub>-10</sub> <sup>+</sup> <sub>-10</sub>	337	ALBRECHT	89B	ARG	0 $e^+ e^- \rightarrow D^+ \pi^- X$
20 ±10 ± 5	153	ANJOS	89C	TPS	0 $\gamma N \rightarrow D^+ \pi^- X$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
46.0± 1.4± 1.8		<sup>8</sup> AAIJ	15Y	LHCB	+ $B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$

- <sup>1</sup> From the amplitude analysis in the model describing the  $D^+\pi^-$  wave together with virtual contributions from the  $D^*(2007)^0$  and  $B^{*0}$  states, and components corresponding to the  $D_2^*(2460)^0$ ,  $D_1^*(2680)^0$ ,  $D_3^*(2760)^0$ , and  $D_2^*(3000)^0$  resonances.
- <sup>2</sup> From the amplitude analysis in the model describing the  $D^+\pi^-$  wave together with virtual contributions from the  $D^*(2007)^0$  and  $B^{*0}$  states, nonresonant spin-0 and spin-1 components as well as the  $D_0^*(2400)^0$ ,  $D_2^*(2460)^0$  and  $D_1^*(2760)^0$  resonances.
- <sup>3</sup> From the Dalitz plot analysis including various  $K^*$  and  $D^{**}$  mesons as well as broad structures in the  $K\pi$   $S$ -wave and the  $D\pi$   $S$ - and  $P$ -waves.
- <sup>4</sup> Modeling the  $\pi^+\pi^-$   $S$ -wave with the Isobar formalism.
- <sup>5</sup> From the combined fit of the  $M(D^+\pi^-)$  and  $M(D^{*+}\pi^-)$  distributions. and  $A_{D_2}$  fixed to the theoretical prediction of  $-1$ .
- <sup>6</sup> Fit includes the contribution from  $D_0^*(2400)^0$ .
- <sup>7</sup> Fit includes the contribution from  $D_0^*(2400)^\pm$ .
- <sup>8</sup> Modeling the  $\pi^+\pi^-$   $S$ -wave with the K-matrix formalism.

WEIGHTED AVERAGE  
 $47.3 \pm 0.8$  (Error scaled by 1.5)



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

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

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $D\pi^-$	seen
$\Gamma_2$ $D^*(2010)\pi^-$	seen
$\Gamma_3$ $D\pi^+\pi^-$	
$\Gamma_4$ $D^*\pi^+\pi^-$	

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

$\Gamma(D\pi^-)/\Gamma_{\text{total}}$						$\Gamma_1/\Gamma$
<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
seen	3.4k	AUBERT	09AB BABR	0	$B^- \rightarrow D^+\pi^-\pi^-$	
seen	337	ALBRECHT	89B ARG	0	$e^+e^- \rightarrow D^+\pi^-X$	
<b>seen</b>		ALBRECHT	89F ARG	+	$e^+e^- \rightarrow D^0\pi^+X$	
<b>seen</b>		ANJOS	89C TPS	0	$\gamma N \rightarrow D^+\pi^-X$	

$\Gamma(D^*(2010)\pi^-)/\Gamma_{\text{total}}$						$\Gamma_2/\Gamma$
<u>VALUE</u>		<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
seen		ACKERSTAFF	97W OPAL	0	$e^+e^- \rightarrow D^{*+}\pi^-X$	
seen		AVERY	90 CLEO	0	$e^+e^- \rightarrow D^{*+}\pi^-X$	
<b>seen</b>		ALBRECHT	89H ARG	0	$e^+e^- \rightarrow D^*\pi^-X$	

$\Gamma(D\pi^-)/\Gamma(D^*(2010)\pi^-)$						$\Gamma_1/\Gamma_2$
<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
<b>1.52 ± 0.14 OUR AVERAGE</b>						
1.4 ± 0.3 ± 0.3	2.3k	<sup>1</sup> ABRAMOWICZ13	ZEUS	0	$e^\pm p \rightarrow D^{(*)+}\pi^-X$	
1.1 ± 0.4 $\begin{smallmatrix} +0.3 \\ -0.2 \end{smallmatrix}$	1371	<sup>2</sup> ABRAMOWICZ13	ZEUS	+	$e^\pm p \rightarrow D^{(*)0}\pi^+X$	
1.47 ± 0.03 ± 0.16	379k	DEL-AMO-SA...10P	BABR	0	$e^+e^- \rightarrow D^{(*)+}\pi^-X$	
2.8 ± 0.8 $\begin{smallmatrix} +0.5 \\ -0.6 \end{smallmatrix}$	1.5k	CHEKANOV	09 ZEUS	0	$e^\pm p \rightarrow D^{(*)+}\pi^-X$	
2.2 ± 0.7 ± 0.6		AVERY	94C CLE2	0	$e^+e^- \rightarrow D^{*+}\pi^-X$	
1.9 ± 1.1 ± 0.3		BERGFELD	94B CLE2	+	$e^+e^- \rightarrow \text{hadrons}$	
2.3 ± 0.8		AVERY	90 CLEO	0	$e^+e^-$	
3.0 ± 1.1 ± 1.5		ALBRECHT	89H ARG	0	$e^+e^- \rightarrow D^*\pi^-X$	

• • • We do not use the following data for averages, fits, limits, etc. • • •

1.9 ± 0.5	ABE	04D BELL	0	$B^- \rightarrow D^{(*)+}\pi^-\pi^-$
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<sup>1</sup>From the combined fit of the  $M(D^+\pi^-)$  and  $M(D^{*+}\pi^-)$  distributions. and  $A_{D_2}$  fixed to the theoretical prediction of  $-1$ .

<sup>2</sup>From the fit of the  $M(D^0\pi^+)$  distribution. The widths of the  $D_1^+$  and  $D_2^+$  are fixed to 25 MeV and 37 MeV, and  $A_{D_1}$  and  $A_{D_2}$  are fixed to the theoretical predictions of 3 and  $-1$ , respectively.

$\Gamma(D\pi^-)/[\Gamma(D\pi^-) + \Gamma(D^*(2010)\pi^-)]$   $\Gamma_1/(\Gamma_1+\Gamma_2)$

VALUE	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

$0.62 \pm 0.03 \pm 0.02$	8414	<sup>1</sup> AUBERT	09Y	BABR	0	$B^+ \rightarrow D_2^{*0} \ell^+ \nu_\ell$
$0.62 \pm 0.03 \pm 0.02$	3361	<sup>1</sup> AUBERT	09Y	BABR	+	$\bar{B}^0 \rightarrow D_2^{*+} \ell^- \nu_\ell$

<sup>1</sup> Assuming  $\Gamma(\Upsilon(4S) \rightarrow B^+ B^-) / \Gamma(\Upsilon(4S) \rightarrow B^0 \bar{B}^0) = 1.065 \pm 0.026$  and equal partial widths for charged and neutral  $D_2^*$  mesons.

**$D_2^*(2460)$  POLARIZATION AMPLITUDE  $A_{D_2}$**

A polarization amplitude  $A_{D_2}$  is a parameter that depends on the initial polarization of the  $D_2$ . For  $D_2$  decays the helicity angle,  $\theta_H$ , distribution varies like  $1 + A_{D_2} \cos^2(\theta_H)$ , where  $\theta_H$  is the angle in the  $D^*$  rest frame between the two pions emitted by the  $D_2 \rightarrow D^* \pi$  and  $D^* \rightarrow D \pi$ .

VALUE	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

$-1.16 \pm 0.35$	2.3k	<sup>1</sup> ABRAMOWICZ13	ZEUS	0	$e^\pm p \rightarrow D^{(*)+} \pi^- X$	
consistent with $-1$	243k	DEL-AMO-SA...10P	BABR	0	$e^+ e^- \rightarrow D^+ \pi^- X$	
$-0.74^{+0.49}_{-0.38}$		<sup>2</sup> AVERY	94C	CLE2	0	$e^+ e^- \rightarrow D^{*+} \pi^- X$

<sup>1</sup> From the combined fit of the  $M(D^+ \pi^-)$  and  $M(D^{*+} \pi^-)$  distributions.

<sup>2</sup> Systematic uncertainties not estimated.

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

AAIJ	16AH	PR D94 072001	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	15V	PR D91 092002	R. Aaij <i>et al.</i>	(LHCb Collab.)
Also		PR D93 119901 (errat.)	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	15X	PR D92 012012	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	15Y	PR D92 032002	R. Aaij <i>et al.</i>	(LHCb Collab.)
AAIJ	13CC	JHEP 1309 145	R. Aaij <i>et al.</i>	(LHCb Collab.)
ABRAMOWICZ	13	NP B866 229	H. Abramowicz <i>et al.</i>	(ZEUS Collab.)
DEL-AMO-SA...	10P	PR D82 111101	P. del Amo Sanchez <i>et al.</i>	(BABAR Collab.)
AUBERT	09AB	PR D79 112004	B. Aubert <i>et al.</i>	(BABAR Collab.)
AUBERT	09Y	PRL 103 051803	B. Aubert <i>et al.</i>	(BABAR Collab.)
CHEKANOV	09	EPJ C60 25	S. Chekanov <i>et al.</i>	(ZEUS Collab.)
KUZMIN	07	PR D76 012006	A. Kuzmin <i>et al.</i>	(BELLE Collab.)
ABULENCIA	06A	PR D73 051104	A. Abulencia <i>et al.</i>	(CDF Collab.)
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.)
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.)
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	89F	PL B231 208	H. Albrecht <i>et al.</i>	(ARGUS Collab.)
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.)