

$D_2^*(2460)$ $I(J^P) = \frac{1}{2}(2^+)$

NODE=M254

 $D_2^*(2460)$ 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
2461.1±0.8 OUR FIT		Error includes scale factor of 6.3.	[2461.1 ^{+0.7} _{-0.8} MeV OUR 2023		NODE=M254M
FIT Scale factor = 6.2]					NODE=M254M
2461.1±0.7 OUR AVERAGE		Error includes scale factor of 5.2. See the ideogram below.			NEW
2463.7±0.4±0.7	28k	¹ AAIJ	16AH LHCb	0	$B^- \rightarrow D^+ \pi^- \pi^-$
2464.0±1.4±0.5	2k	² AAIJ	15V LHCb	0	$B^- \rightarrow D^+ K^- \pi^-$
2465.6±1.8±1.3		³ AAIJ	15X LHCb	+	$B^0 \rightarrow \bar{D}^0 K^+ \pi^-$
2468.6±0.6±0.3		⁴ AAIJ	15Y LHCb	+	$B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$
2460.4±0.4±1.2	82k	AAIJ	13CC LHCb	0	$p\bar{p} \rightarrow D^{*+} \pi^- X$
2460.4±0.1±0.1	675k	AAIJ	13CC LHCb	0	$p\bar{p} \rightarrow D^+ \pi^- X$
2463.1±0.2±0.6	342k	AAIJ	13CC LHCb	+	$p\bar{p} \rightarrow D^0 \pi^+ X$
2462.5±2.4 ^{+1.3} _{-1.1}	2.3k	⁵ ABRAMOWICZ13	ZEUS	0	$e^\pm p \rightarrow D^{(*)+} \pi^- X$
2460.6±4.4 ^{+3.6} _{-0.8}	1371	⁶ 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	⁷ 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 ^{+1.4} _{-4.8}	2909	KUZMIN	07 BELL	+	$e^+ e^- \rightarrow \text{hadrons}$
2461.6±2.1±3.3		⁸ ABE	04D BELL	0	$B^- \rightarrow D^+ \pi^- \pi^-$
2464.5±1.1±1.9	5.8k	⁸ LINK	04A FOCS	0	γA
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		⁹ AAIJ	15Y LHCb	+	$B^0 \rightarrow \bar{D}^0 \pi^+ \pi^-$
2469.1±3.7 ^{+1.2} _{-1.3}	1.5k	¹⁰ 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	¹¹ LINK	04A FOCS	+	γA
2461 ± 6	126	¹² ABREU	98M DLPH	0	$e^+ e^-$
2466 ± 7	1	ASRATYAN	95 BEBC	0	$53,40 \nu(\bar{\nu}) \rightarrow pX, dX$

¹ 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.

² 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.

³ 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.

⁴ Modeling the $\pi^+ \pi^-$ S-wave with the Isobar formalism.

⁵ 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.

⁶ 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.

⁷ At a fixed width of 50.5 MeV.

⁸ Fit includes the contribution from $D_0^*(2400)^0$.

⁹ Modeling the $\pi^+ \pi^-$ S-wave with the K-matrix formalism.

¹⁰ Calculated using the mass difference $m(D_2^{*0}) - m(D^{*0})_{PDG}$ 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.

NODE=M254M

NODE=M254M

NODE=M254M

OCCUR=2

OCCUR=2

OCCUR=3

OCCUR=2

OCCUR=2

OCCUR=2

OCCUR=2

NODE=M254M;LINKAGE=B

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NODE=M254M;LINKAGE=DE

NODE=M254M;LINKAGE=LI

NODE=M254M;LINKAGE=CC

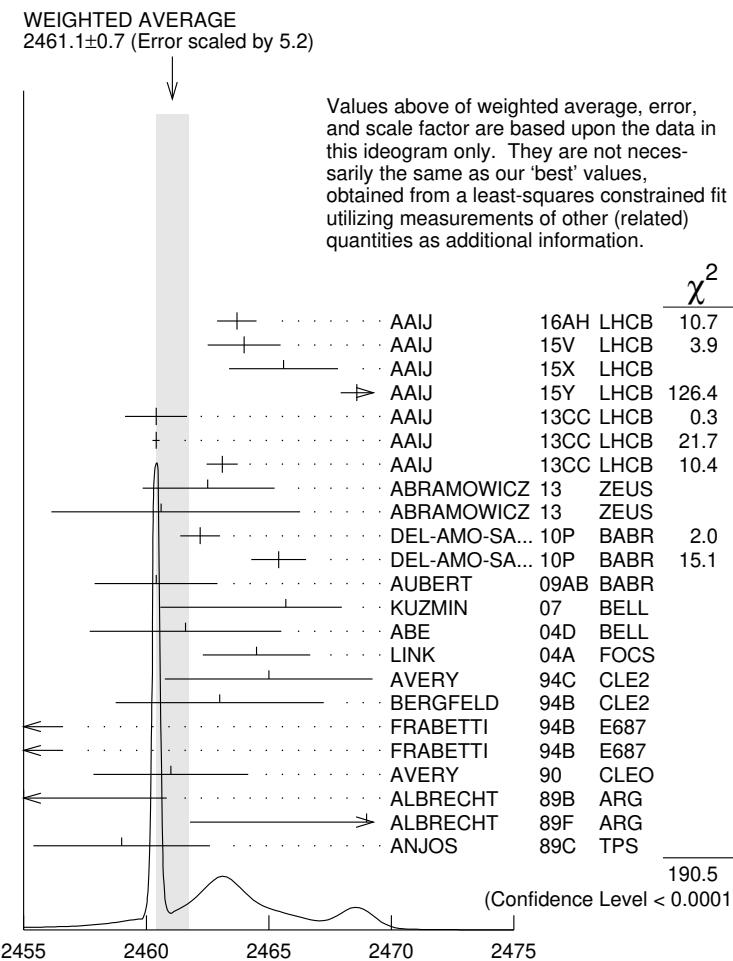
NODE=M254M;LINKAGE=CH

¹¹ Fit includes the contribution from $D_0^*(2400)^\pm$. Not independent of the corresponding mass difference measurement, $(m_{D_2^*(2460)^\pm}) - (m_{D_2^*(2460)^0})$.

¹² No systematic error given.

NODE=M254M;LINKAGE=LC

NODE=M254M;LINKAGE=K



$D_2^*(2460)$ mass (MeV)

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

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
591.5±0.8 OUR FIT	Error includes scale factor of 6.0.	[591.5 ^{+0.7} _{-0.8} MeV OUR 2023		
FIT Scale factor = 5.9]				
593.9±0.6±0.5	20k	ABULENCIA	06A CDF	1900 $p\bar{p} \rightarrow D^+ \pi^- X$

NODE=M254DM

NODE=M254DM

NODE=M254DM

NEW

NODE=M254DM2

NODE=M254DM2

NODE=M254DM2

NEW

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

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
450.9±0.8 OUR FIT	Error includes scale factor of 6.0.	[450.9 ^{+0.7} _{-0.8} MeV OUR 2023		
FIT Scale factor = 5.9]				
458.8±3.7^{+1.2}_{-1.3}	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
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	$e^+ e^- \rightarrow D^0\pi^+X$

 $D_2^*(2460)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
47.3± 0.8 OUR AVERAGE					
47.0± 0.8± 1.0	28k	1 AAIJ	16AH LHCb	0	$B^- \rightarrow D^+\pi^-\pi^-$
43.8± 2.9± 1.8	2k	2 AAIJ	15V LHCb	0	$B^- \rightarrow D^+K^-\pi^-$
46.0± 3.4± 3.2		3 AAIJ	15X LHCb	+	$B^0 \rightarrow \bar{D}^0K^+\pi^-$
47.3± 1.5± 0.7		4 AAIJ	15Y LHCb	+	$B^0 \rightarrow \bar{D}^0\pi^+\pi^-$
43.2± 1.2± 3.0	82k	AAIJ	13CC LHCb	0	$pp \rightarrow D^{*+}\pi^-X$
45.6± 0.4± 1.1	675k	AAIJ	13CC LHCb	0	$pp \rightarrow D^+\pi^-X$
48.6± 1.3± 1.9	342k	AAIJ	13CC LHCb	+	$pp \rightarrow D^0\pi^+X$
46.6± 8.1± 5.9	2.3k	5 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	+	$e^+ e^- \rightarrow \text{hadrons}$
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		6 ABE	04D BELL	0	$B^- \rightarrow D^+\pi^-\pi^-$
38.7± 5.3± 2.9	5.8k	6 LINK	04A FOCS	0	γA
34.1± 6.5± 4.2	3.5k	7 LINK	04A FOCS	+	γA
28 ± 8 ± 6	486	AVERY	94C CLE2	0	$e^+ e^- \rightarrow D^+\pi^-X$
27 ± 11 ± 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 ± 9 ± 9	440	AVERY	90 CLEO	0	$e^+ e^- \rightarrow D^{*+}\pi^-X$
15 ± 13 ± 5	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 8 AAIJ 15Y LHCb + $B^0 \rightarrow \bar{D}^0\pi^+\pi^-$

1 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 $D_2^*(2460)^0$, $D_2^*(2680)^0$, $D_2^*(2760)^0$, and $D_2^*(3000)^0$ resonances.

2 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.

3 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.

4 Modeling the $\pi^+\pi^-$ S-wave with the Isobar formalism.

5 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.

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

7 Fit includes the contribution from $D_0^*(2400)^{\pm}$.

8 Modeling the $\pi^+\pi^-$ S-wave with the K-matrix formalism.

NODE=M254DMC

NODE=M254DMC

NODE=M254W

NODE=M254W

OCCUR=3

OCCUR=2

OCCUR=3

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NODE=M254W;LINKAGE=AC

NODE=M254W;LINKAGE=B

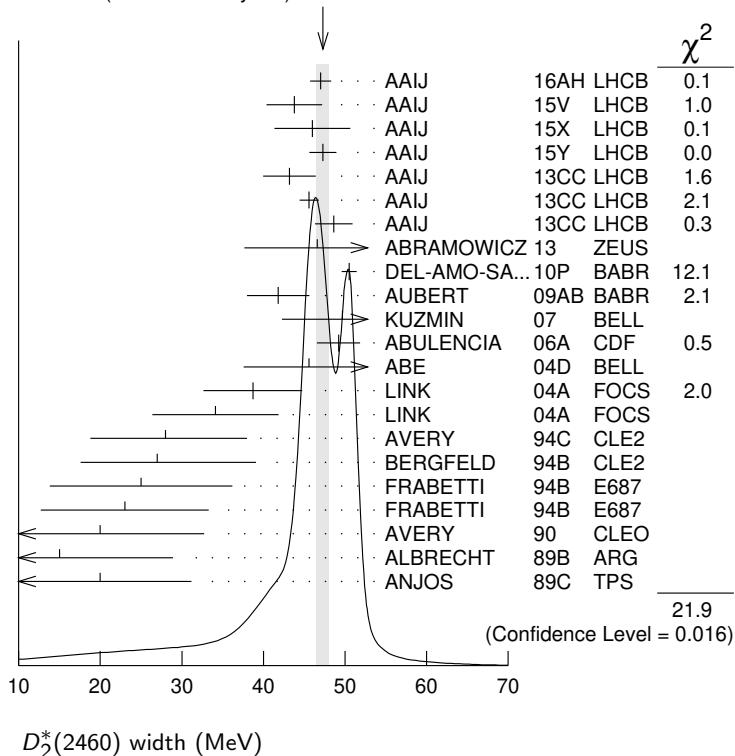
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NODE=M254W;LINKAGE=LI

NODE=M254W;LINKAGE=LC

NODE=M254W;LINKAGE=C

WEIGHTED AVERAGE
47.3±0.8 (Error scaled by 1.5)



$D_2^*(2460)$ width (MeV)

$D_2^*(2460)$ DECAY MODES

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

Mode	Fraction (Γ_i/Γ)
Γ_1 $D\pi^-$	seen
Γ_2 $D^*(2010)\pi^-$	seen
Γ_3 $D\pi^+\pi^-$	
Γ_4 $D^*\pi^+\pi^-$	

$D_2^*(2460)$ BRANCHING RATIOS

$\Gamma(D\pi^-)/\Gamma_{\text{total}}$	Γ_1/Γ
VALUE	EVTS DOCUMENT ID TECN CHG COMMENT
seen	3.4k AUBERT 09AB BABR 0 $B^- \rightarrow D^+ \pi^- \pi^-$
seen	337 ALBRECHT 89B ARG 0 $e^+ e^- \rightarrow D^+ \pi^- X$
seen	ALBRECHT 89F ARG + $e^+ e^- \rightarrow D^0 \pi^+ X$
seen	ANJOS 89C TPS 0 $\gamma N \rightarrow D^+ \pi^- X$

NODE=M254215;NODE=M254

NODE=M254

DESIG=1
DESIG=2
DESIG=3
DESIG=4

NODE=M254220

NODE=M254R1
NODE=M254R1

NODE=M254R2
NODE=M254R2

$\Gamma(D^*(2010)\pi^-)/\Gamma_{\text{total}}$	Γ_2/Γ
VALUE	DOCUMENT ID TECN CHG COMMENT
seen	ACKERSTAFF 97W OPAL 0 $e^+ e^- \rightarrow D^{*+} \pi^- X$
seen	AVERY 90 CLEO 0 $e^+ e^- \rightarrow D^{*+} \pi^- X$
seen	ALBRECHT 89H ARG 0 $e^+ e^- \rightarrow D^* \pi^- X$

NODE=M254R1
NODE=M254R1

$\Gamma(D\pi^-)/\Gamma(D^*(2010)\pi^-)$	Γ_1/Γ_2
VALUE	EVTS DOCUMENT ID TECN CHG COMMENT
1.52±0.14 OUR AVERAGE	
1.4 ± 0.3 ± 0.3	2.3k ¹ ABRAMOWICZ13 ZEUS 0 $e^\pm p \rightarrow D^{(*)+} \pi^- X$
1.1 ± 0.4 ± 0.3	1371 ² 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 ± 0.5	1.5k CHEKANOV 09 ZEUS 0 $e^\pm p \rightarrow D^{(*)+} \pi^- X$
2.2 ± 0.7 ± 0.6	AVERY 94C CLE2 0 $e^+ e^- \rightarrow D^{*+} \pi^- X$

NODE=M254R3
NODE=M254R3

OCCUR=2

1.9 $\pm 1.1 \pm 0.3$	BERGFELD	94B	CLE2	+	$e^+ e^- \rightarrow$	hadrons
2.3 ± 0.8	AVERY	90	CLEO	0	$e^+ e^-$	
3.0 $\pm 1.1 \pm 1.5$	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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¹ 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 .

² 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

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

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

¹ Assuming $\Gamma(\gamma(4S) \rightarrow B^+ B^-) / \Gamma(\gamma(4S) \rightarrow B^0 \bar{B}^0) = 1.065 \pm 0.026$ 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, θ_H , distribution varies like $1 + A_{D_2} \cos^2(\theta_H)$, where θ_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
• • • We do not use the following data for averages, fits, limits, etc. • • •					
-1.16 ± 0.35	2.3k	¹ ABRAMOWICZ13	ZEUS	0	$e^\pm p \rightarrow D^{(*)+} \pi^- X$
consistent with -1	243k	DEL-AMO-SA..10P	BABR	0	$e^+ e^- \rightarrow D^+ \pi^- X$
$-0.74^{+0.49}_{-0.38}$		² AVERY	94C	CLE2	$e^+ e^- \rightarrow D^{*+} \pi^- X$

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

² Systematic uncertainties not estimated.

$D_2^*(2460)$ REFERENCES

AAIJ	16AH	PR D94 072001	R. Aaij <i>et al.</i>	(LHCb Collab.)	REFID=57518
AAIJ	15V	PR D91 092002	R. Aaij <i>et al.</i>	(LHCb Collab.)	REFID=56575
Also		PR D93 119901 (errat.)	R. Aaij <i>et al.</i>	(LHCb Collab.)	REFID=57289
AAIJ	15X	PR D92 012012	R. Aaij <i>et al.</i>	(LHCb Collab.)	REFID=56588
AAIJ	15Y	PR D92 032002	R. Aaij <i>et al.</i>	(LHCb Collab.)	REFID=56609
AAIJ	13CC	JHEP 1309 145	R. Aaij <i>et al.</i>	(LHCb Collab.)	REFID=55581
ABRAMOWICZ	13	NP B866 229	H. Abramowicz <i>et al.</i>	(ZEUS Collab.)	REFID=54743
DEL-AMO-SA...	10P	PR D82 111101	P. del Amo Sanchez <i>et al.</i>	(BABAR Collab.)	REFID=53534
AUBERT	09AB	PR D79 112004	B. Aubert <i>et al.</i>	(BABAR Collab.)	REFID=52941
AUBERT	09Y	PRL 103 051803	B. Aubert <i>et al.</i>	(BABAR Collab.)	REFID=52929
CHEKANOV	09	EPJ C60 25	S. Chekanov <i>et al.</i>	(ZEUS Collab.)	REFID=52733
KUZMIN	07	PR D76 012006	A. Kuzmin <i>et al.</i>	(BELLE Collab.)	REFID=51854
ABULENCIA	06A	PR D73 051104	A. Abulencia <i>et al.</i>	(CDF Collab.)	REFID=51054
ABE	04D	PR D69 112002	K. Abe <i>et al.</i>	(BELLE Collab.)	REFID=50011
LINK	04A	PL B586 11	J.M. Link <i>et al.</i>	(FOCUS Collab.)	REFID=49775
ABREU	98M	PL B426 231	P. Abreu <i>et al.</i>	(DELPHI Collab.)	REFID=46315
ACKERSTAFF	97W	ZPHY C76 425	K. Ackerstaff <i>et al.</i>	(OPAL Collab.)	REFID=45788
ASRATYAN	95	ZPHY C68 43	A.E. Asratyan <i>et al.</i>	(BIRM, BELG, CERN+)	REFID=44439
AVERY	94C	PL B331 236	P. Avery <i>et al.</i>	(CLEO Collab.)	REFID=44096
BERGFELD	94B	PL B340 194	T. Bergfeld <i>et al.</i>	(CLEO Collab.)	REFID=44099
FRABETTI	94B	PR D72 324	P.L. Frabetti <i>et al.</i>	(FNAL E687 Collab.)	REFID=43687
AVERY	90	PR D41 774	P. Avery, D. Besson	(CLEO Collab.)	REFID=41013
ALBRECHT	89B	PL B221 422	H. Albrecht <i>et al.</i>	(ARGUS Collab.) JP	REFID=40736
ALBRECHT	89F	PL B231 208	H. Albrecht <i>et al.</i>	(ARGUS Collab.)	REFID=40931
ALBRECHT	89H	PL B232 398	H. Albrecht <i>et al.</i>	(ARGUS Collab.) JP	REFID=41001
ANJOS	89C	PR D 62 1717	J.C. Anjos <i>et al.</i>	(FNAL E691 Collab.)	REFID=40737