



$f_2(1565)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
134± 8 OUR AVERAGE			
140± 11	10 AMELIN	06 VES	$36 \pi^- p \rightarrow \omega\omega n$
113± 23	11 AMSLER	02 CBAR	$0.9 \bar{p}p \rightarrow \pi^0 \eta\eta, \pi^0 \pi^0 \pi^0$
130± 20±40	AMELIN	00 VES	$37 \pi^- p \rightarrow \eta\pi^+ \pi^- n$
119± 24	BERTIN	98 OBLX	$0.05-0.405 \bar{n}p \rightarrow \pi^+ \pi^+ \pi^-$
130± 20	11 BERTIN	97C OBLX	$0.0 \bar{p}p \rightarrow \pi^+ \pi^- \pi^0$
170± 40	MAY	90 ASTE	$0.0 \bar{p}p \rightarrow \pi^+ \pi^- \pi^0$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
280± 40	12 ANISOVICH	09 RVUE	$0.0 \bar{p}p, \pi N$
180± 60	13 ABELE	96C RVUE	Compilation
~142	14 AMSLER	95D CBAR	$0.0 \bar{p}p \rightarrow \pi^0 \pi^0 \pi^0, \pi^0 \eta\eta, \pi^0 \pi^0 \eta$
263±101	BALOSHIN	95 SPEC	$40 \pi^- C \rightarrow K_S^0 K_S^0 X$
$166^{+ 80}_{- 20}$	15 ANISOVICH	94 CBAR	$0.0 \bar{p}p \rightarrow 3\pi^0, \eta\eta\pi^0$
130± 10	16 ADAMO	93 OBLX	$\bar{n}p \rightarrow \pi^+ \pi^+ \pi^-$
148± 27	17 ARMSTRONG	93C E760	$\bar{p}p \rightarrow \pi^0 \eta\eta \rightarrow 6\gamma$
103± 15	17 ARMSTRONG	93D E760	$\bar{p}p \rightarrow 3\pi^0 \rightarrow 6\gamma$
111± 10	17 ARMSTRONG	93D E760	$\bar{p}p \rightarrow \eta\pi^0 \pi^0 \rightarrow 6\gamma$
~206	18 WEIDENAUER	93 ASTE	$0.0 \bar{p}N \rightarrow 3\pi^- 2\pi^+$
132± 37	17 ADAMO	92 OBLX	$\bar{n}p \rightarrow \pi^+ \pi^+ \pi^-$
120± 10	19 AKER	91 CBAR	$0.0 \bar{p}p \rightarrow 3\pi^0$
116± 9	BRIDGES	86C DBC	$0.0 \bar{p}N \rightarrow 3\pi^- 2\pi^+$

- 10 Supersedes the $\omega\omega$ state of BELADIDZE 92B earlier assigned to the $f_2(1640)$.
 11 T-matrix pole.
 12 On sheet II in a two-pole solution.
 13 T-matrix pole, large coupling to $\rho\rho$ and $\omega\omega$, could be $f_2(1640)$.
 14 Coupled-channel analysis of AMSLER 95B, AMSLER 95C, and AMSLER 94D.
 15 From a simultaneous analysis of the annihilations $\bar{p}p \rightarrow 3\pi^0, \pi^0\eta\eta$ including AKER 91 data.
 16 Supersedes ADAMO 92.
 17 J^P not determined, could be partly $f_0(1500)$.
 18 J^P not determined.
 19 Superseded by AMSLER 95B.
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$f_2(1565)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \pi\pi$	seen
$\Gamma_2 \pi^+\pi^-$	seen
$\Gamma_3 \pi^0\pi^0$	seen
$\Gamma_4 \rho^0\rho^0$	seen
$\Gamma_5 2\pi^+2\pi^-$	seen
$\Gamma_6 \eta\eta$	seen
$\Gamma_7 a_2(1320)\pi$	
$\Gamma_8 \omega\omega$	seen
$\Gamma_9 K\bar{K}$	
$\Gamma_{10} \gamma\gamma$	

$f_2(1565)$ PARTIAL WIDTHS

$\Gamma(\eta\eta)$	Γ_6
<u>VALUE (MeV)</u>	<u>EVTS</u> <u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
• • • We do not use the following data for averages, fits, limits, etc. • • •	
1.2±0.3	870 ²⁰ SCHEGELSKY 06A RVUE $\gamma\gamma \rightarrow K_S^0 K_S^0$
$\Gamma(K\bar{K})$	Γ_9
<u>VALUE (MeV)</u>	<u>EVTS</u> <u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
• • • We do not use the following data for averages, fits, limits, etc. • • •	
2.0±1.0	870 ²⁰ SCHEGELSKY 06A RVUE $\gamma\gamma \rightarrow K_S^0 K_S^0$
$\Gamma(\gamma\gamma)$	Γ_{10}
<u>VALUE (keV)</u>	<u>EVTS</u> <u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
• • • We do not use the following data for averages, fits, limits, etc. • • •	
0.70±0.14	870 ²⁰ SCHEGELSKY 06A RVUE $\gamma\gamma \rightarrow K_S^0 K_S^0$

²⁰ From analysis of L3 data at 91 and 183–209 GeV, using $f_2(1565)$ mass of 1570 MeV, width of 160 MeV, $\Gamma(\pi\pi) = 25$ MeV, and SU(3) relations.

AMSLER	94D	PL B333 277	C. Amsler <i>et al.</i>	(Crystal Barrel Collab.)
ANISOVICH	94	PL B323 233	V.V. Anisovich <i>et al.</i>	(Crystal Barrel Collab.)
ANISOVICH	94B	PR D50 1972	V.V. Anisovich <i>et al.</i>	(LOQM)
ADAMO	93	NP A558 13C	A. Adamo <i>et al.</i>	(OBELIX Collab.)
ARMSTRONG	93C	PL B307 394	T.A. Armstrong <i>et al.</i>	(FNAL, FERR, GENO+)
ARMSTRONG	93D	PL B307 399	T.A. Armstrong <i>et al.</i>	(FNAL, FERR, GENO+)
WEIDENAUER	93	ZPHY C59 387	P. Weidenauer <i>et al.</i>	(ASTERIX Collab.)
ADAMO	92	PL B287 368	A. Adamo <i>et al.</i>	(OBELIX Collab.)
BELADIDZE	92B	ZPHY C54 367	G.M. Beladidze <i>et al.</i>	(VES Collab.)
AKER	91	PL B260 249	E. Aker <i>et al.</i>	(Crystal Barrel Collab.)
MAY	90	ZPHY C46 203	B. May <i>et al.</i>	(ASTERIX Collab.)
MAY	89	PL B225 450	B. May <i>et al.</i>	(ASTERIX Collab.) IJP
BRIDGES	86B	PRL 56 215	D.L. Bridges <i>et al.</i>	(SYRA, CASE)
BRIDGES	86C	PRL 57 1534	D.L. Bridges <i>et al.</i>	(SYRA)