

$f_0(2200)$

$$I^G(J^{PC}) = 0^+(0^{++})$$

OMITTED FROM SUMMARY TABLE

Seen in $K_S^0 K_S^0$ (AUGUSTIN 88), $K^+ K^-$ (ABLIKIM 05Q) and $\eta\eta$ (BINON 05) system. Not seen in $\Upsilon(1S)$ radiative decays (BARU 89).

$f_0(2200)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
2189 ± 13 OUR AVERAGE			
2170 ± 20 ⁺¹⁰ ₋₁₅	ABLIKIM	05Q	BES2 $\psi(2S) \rightarrow \gamma\pi^+\pi^-K^+K^-$
2210 ± 50	¹ BINON	05	GAMS 33 $\pi^-p \rightarrow \eta\eta n$
2197 ± 17	² AUGUSTIN	88	DM2 $J/\psi \rightarrow \gamma K_S^0 K_S^0$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
~ 2122	HASAN	94	RVUE $\bar{p}p \rightarrow \pi\pi$
~ 2321	HASAN	94	RVUE $\bar{p}p \rightarrow \pi\pi$

¹ First solution, PWA is ambiguous.
² Cannot determine spin to be 0.

$f_0(2200)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
238 ± 50 OUR AVERAGE Error includes scale factor of 1.2.			
220 ± 60 ⁺⁴⁰ ₋₄₅	ABLIKIM	05Q	BES2 $\psi(2S) \rightarrow \gamma\pi^+\pi^-K^+K^-$
380 ± 90	³ BINON	05	GAMS 33 $\pi^-p \rightarrow \eta\eta n$
201 ± 51	⁴ AUGUSTIN	88	DM2 $J/\psi \rightarrow \gamma K_S^0 K_S^0$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
~ 273	HASAN	94	RVUE $\bar{p}p \rightarrow \pi\pi$
~ 223	HASAN	94	RVUE $\bar{p}p \rightarrow \pi\pi$

³ First solution, PWA is ambiguous.
⁴ Cannot determine spin to be 0.

$f_0(2200)$ REFERENCES

ABLIKIM	05Q	PR D72 092002	M. Ablikim <i>et al.</i>	(BES Collab.)
BINON	05	PAN 68 960	F. Binon <i>et al.</i>	
		Translated from YAF 68 998.		
HASAN	94	PL B334 215	A. Hasan, D.V. Bugg	(LOQM)
BARU	89	ZPHY C42 505	S.E. Baru <i>et al.</i>	(NOVO)
AUGUSTIN	88	PRL 60 2238	J.E. Augustin <i>et al.</i>	(DM2 Collab.)

OTHER RELATED PAPERS

IWASAKI	05A	PR D72 094016	M. Iwasaki, T. Fukutome	
VIJANDE	05	PR D72 034025	J. Vijande, A. Valarce, F. Fernandez	
EISENHAND...	75	NP B96 109	E. Eisenhandler <i>et al.</i>	(LOQM, LIVP, DARE+)