

$f_0(2200)$

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

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			
$2170 \pm 20^{+10}_{-15}$	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.			
$220 \pm 60^{+40}_{-45}$	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.)