

# $f_0(2200)$

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

## 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
<b>2189 ± 13 OUR AVERAGE</b>			
$2170 \pm 20^{+10}_{-15}$	ABLIKIM	05Q	BES2 $\psi(2S) \rightarrow \gamma\pi^+\pi^-K^+K^-$
$2210 \pm 50$	<sup>1</sup> BINON	05	GAMS $33 \pi^- p \rightarrow \eta\eta n$
$2197 \pm 17$	<sup>2</sup> 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 $\bar{p}p \rightarrow \pi\pi$

<sup>1</sup> First solution, PWA is ambiguous.

<sup>2</sup> Cannot determine spin to be 0.

### $f_0(2200)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>238 ± 50 OUR AVERAGE</b> Error includes scale factor of 1.2.			
$220 \pm 60^{+40}_{-45}$	ABLIKIM	05Q	BES2 $\psi(2S) \rightarrow \gamma\pi^+\pi^-K^+K^-$
$380 \pm 90$	<sup>3</sup> BINON	05	GAMS $33 \pi^- p \rightarrow \eta\eta n$
$201 \pm 51$	<sup>4</sup> 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 $\bar{p}p \rightarrow \pi\pi$

<sup>3</sup> First solution, PWA is ambiguous.

<sup>4</sup> 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+)