NODE=M112

$f_0(2200)$

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

OMITTED FROM SUMMARY TABLE

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

NODE=M112

$f_0(2200)$ MASS

NODE=M112205

NODE=M112M

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
2189±13 OUR AVERAGE				
$2170\pm20^{+10}_{-15}$	ABLIKIM	05Q	BES2	$\psi(2S) \to \gamma\pi^+\pi^- K^+ K^-$
2210 ± 50	[1] BINON	05	GAMS	$33\ \pi^- p \to \eta\eta n$
2197 ± 17	[2] AUGUSTIN	88	DM2	$J/\psi \to \gamma K^0_S K^0_S$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
~ 2122	HASAN	94	RVUE	$\overline{p}p \to \pi\pi$
~ 2321	HASAN	94	RVUE	$\overline{p}p \to \pi\pi$

OCCUR=2

[1] First solution, PWA is ambiguous.

NODE=M112M;LINKAGE=BI

[2] Cannot determine spin to be 0.

NODE=M112M;LINKAGE=A

$f_0(2200)$ WIDTH

NODE=M112220

NODE=M112W

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
238±50 OUR AVERAGE	Error includes scale factor of 1.2.			
$220\pm60^{+40}_{-45}$	ABLIKIM	05Q	BES2	$\psi(2S) \to \gamma\pi^+\pi^- K^+ K^-$
380 ± 90	[3] BINON	05	GAMS	$33\ \pi^- p \to \eta\eta n$
201 ± 51	[4] AUGUSTIN	88	DM2	$J/\psi \to \gamma K^0_S K^0_S$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
~ 273	HASAN	94	RVUE	$\overline{p}p \to \pi\pi$
~ 223	HASAN	94	RVUE	$\overline{p}p \to \pi\pi$

OCCUR=2

[3] First solution, PWA is ambiguous.

NODE=M112W;LINKAGE=BI

[4] Cannot determine spin to be 0.

NODE=M112W;LINKAGE=A

$f_0(2200)$ REFERENCES

NODE=M112

ABLIKIM 05Q PR D72 092002 M. Ablikim *et al.* (BES Collab.) REFID=50958

BINON 05 PAN 68 960 F. Binon *et al.* REFID=50780
Translated from YAF 68 998.

HASAN 94 PL B334 215 A. Hasan, D.V. Bugg (LOQM) REFID=44103

BARU 89 ZPHY C42 505 S.E. Baru *et al.* (NOVO) REFID=40917

AUGUSTIN 88 PRL 60 2238 J.E. Augustin *et al.* (DM2 Collab.) REFID=40574

OTHER RELATED PAPERS

IWASAKI 05A PR D72 094016 M. Iwasaki, T. Fukutome REFID=50965

VIJANDE 05 PR D72 034025 J. Vijande, A. Valarce, F. Fernandez REFID=50816

EISENHAND... 75 NP B96 109 E. Eisenhandler *et al.* (LOQM, LIVP, DARE+) REFID=21821