

$f_0(2020)$

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

OMITTED FROM SUMMARY TABLE

Needs confirmation.

 $f_0(2020)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
1992 ± 16	1,2 BARBERIS	00C	450 $pp \rightarrow p_f 4\pi p_s$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
2040 ± 38	ANISOVICH	00J	SPEC
2010 ± 60	ALDE	98	GAM4 100 $\pi^- p \rightarrow \pi^0 \pi^0 n$
2020 ± 35	BARBERIS	97B	OMEG 450 $pp \rightarrow$ $pp2(\pi^+ \pi^-)$

¹ Average between $\pi^+ \pi^- 2\pi^0$ and $2(\pi^+ \pi^-)$.² T-matrix pole. **$f_0(2020)$ WIDTH**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
442 ± 60	3,4 BARBERIS	00C	450 $pp \rightarrow p_f 4\pi p_s$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
405 ± 40	ANISOVICH	00J	SPEC
240 ± 100	ALDE	98	GAM4 100 $\pi^- p \rightarrow \pi^0 \pi^0 n$
410 ± 50	BARBERIS	97B	OMEG 450 $pp \rightarrow$ $pp2(\pi^+ \pi^-)$

³ Average between $\pi^+ \pi^- 2\pi^0$ and $2(\pi^+ \pi^-)$.⁴ T-matrix pole. **$f_0(2020)$ DECAY MODES**

Mode	Fraction (Γ_i/Γ)
Γ_1 $\rho\pi\pi$	seen
Γ_2 $\pi^0\pi^0$	seen
Γ_3 $\rho\rho$	seen
Γ_4 $\omega\omega$	seen

 $f_0(2020)$ BRANCHING RATIOS

$\Gamma(\rho\rho)/\Gamma(\omega\omega)$		Γ_3/Γ_4
VALUE	DOCUMENT ID	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •		
~ 3	BARBERIS	00F 450 $pp \rightarrow p_f \omega \omega p_s$

$f_0(2020)$ REFERENCES

ANISOVICH	00J	PL B491 47	A.V. Anisovich <i>et al.</i>	
BARBERIS	00C	PL B471 440	D. Barberis <i>et al.</i>	(WA 102 Collab.)
BARBERIS	00F	PL B484 198	D. Barberis <i>et al.</i>	(WA 102 Collab.)
ALDE	98	EPJ A3 361	D. Alde <i>et al.</i>	(GAM4 Collab.)
Also	99	PAN 62 405	D. Alde <i>et al.</i>	(GAMS Collab.)
		Translated from YAF 62 446.		
BARBERIS	97B	PL B413 217	D. Barberis <i>et al.</i>	(WA 102 Collab.)
