

**$f_0(2020)$**

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

OMITTED FROM SUMMARY TABLE

Needs confirmation.

### $f_0(2020)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>1992 ± 16</b>	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 $pp \rightarrow pp2(\pi^+ \pi^-)$

<sup>1</sup> Average between  $\pi^+ \pi^- 2\pi^0$  and  $2(\pi^+ \pi^-)$ .

<sup>2</sup> T-matrix pole.

### $f_0(2020)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>442 ± 60</b>	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 $pp \rightarrow pp2(\pi^+ \pi^-)$

<sup>3</sup> Average between  $\pi^+ \pi^- 2\pi^0$  and  $2(\pi^+ \pi^-)$ .

<sup>4</sup> T-matrix pole.

### $f_0(2020)$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $\rho\pi\pi$	seen
$\Gamma_2$ $\pi^0\pi^0$	seen
$\Gamma_3$ $\rho\rho$	seen
$\Gamma_4$ $\omega\omega$	seen

### $f_0(2020)$ BRANCHING RATIOS

$\Gamma(\rho\rho)/\Gamma(\omega\omega)$	DOCUMENT ID	COMMENT	$\Gamma_3/\Gamma_4$
VALUE			
● ● ● 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.)

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