

**$f_0(2020)$**

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

## OMITTED FROM SUMMARY TABLE

Needs confirmation.

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### **$f_0(2020)$ MASS**

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

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

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

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### **$f_0(2020)$ WIDTH**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b><math>442 \pm 60</math></b>	3,4 BARBERIS	00C	$450 \text{ } pp \rightarrow p_f 4\pi p_s$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$			
$405 \pm 40$	ANISOVICH	00J	SPEC
$240 \pm 100$	ALDE	98	GAM4 $100 \pi^- p \rightarrow \pi^0 \pi^0 n$
$410 \pm 50$	BARBERIS	97B	OMEG $450 \text{ } pp \rightarrow pp 2(\pi^+ \pi^-)$

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

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

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### **$f_0(2020)$ 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

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### **$f_0(2020)$ BRANCHING RATIOS**

$\Gamma(\rho\rho)/\Gamma(\omega\omega)$	DOCUMENT ID	COMMENT	$\Gamma_3/\Gamma_4$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$			
$\sim 3$	BARBERIS	$00F \text{ } 450 \text{ } pp \rightarrow p_f \omega \omega p_s$	

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## **f<sub>0</sub>(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		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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## **OTHER RELATED PAPERS**

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