

**$f_6(2510)$** 

$$I^G(J^{PC}) = 0^+(6^{++})$$

OMITTED FROM SUMMARY TABLE

Needs confirmation.

 **$f_6(2510)$  MASS**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b><math>2465 \pm 50</math> OUR AVERAGE</b>	Error includes scale factor of 2.1.		
$2420 \pm 30$	ALDE	98	GAM4 100 $\pi^- p \rightarrow \pi^0 \pi^0 n$
$2510 \pm 30$	BINON	84B	GAM2 38 $\pi^- p \rightarrow n 2\pi^0$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
$2485 \pm 40$	<sup>1</sup> ANISOVICH	00J	SPEC 1.92–2.41 $p\bar{p}$
<sup>1</sup> From the combined analysis of ANISOVICH 99C, ANISOVICH 99F, ANISOVICH 99J, ANISOVICH 99K, and ANISOVICH 00B.			

 **$f_6(2510)$  WIDTH**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b><math>255 \pm 40</math> OUR AVERAGE</b>			
$270 \pm 60$	ALDE	98	GAM4 100 $\pi^- p \rightarrow \pi^0 \pi^0 n$
$240 \pm 60$	BINON	84B	GAM2 38 $\pi^- p \rightarrow n 2\pi^0$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
$410 \pm 90$	<sup>2</sup> ANISOVICH	00J	SPEC 1.92–2.41 $p\bar{p}$
<sup>2</sup> From the combined analysis of ANISOVICH 99C, ANISOVICH 99F, ANISOVICH 99J, ANISOVICH 99K, and ANISOVICH 00B.			

 **$f_6(2510)$  DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad \pi\pi$	$(6.0 \pm 1.0) \%$

 **$f_6(2510)$  BRANCHING RATIOS**

$\Gamma(\pi\pi)/\Gamma_{\text{total}}$				$\Gamma_1/\Gamma$
VALUE	DOCUMENT ID	TECN	COMMENT	
<b><math>0.06 \pm 0.01</math></b>	<sup>3</sup> BINON	83C	GAM2 38 $\pi^- p \rightarrow n 4\gamma$	
<sup>3</sup> Assuming one pion exchange and using data of BOLOTOV 74.				

## $f_6(2510)$ REFERENCES

ANISOVICH	00B	NP A662 319	A.V. Anisovich <i>et al.</i>	
ANISOVICH	00J	PL B491 47	A.V. Anisovich <i>et al.</i>	(RAL, LOQM, PNPI+)
ANISOVICH	99C	PL B452 173	A.V. Anisovich <i>et al.</i>	
ANISOVICH	99F	NP A651 253	A.V. Anisovich <i>et al.</i>	
ANISOVICH	99J	PL B471 271	A.V. Anisovich <i>et al.</i>	
ANISOVICH	99K	PL B468 309	A.V. Anisovich <i>et al.</i>	
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.		
BINON	84B	LNC 39 41	F.G. Binon <i>et al.</i>	(SERP, BELG, LAPP) JP
BINON	83C	SJNP 38 723	F.G. Binon <i>et al.</i>	(SERP, BRUX+)
		Translated from YAF 38 1199.		
BOLOTOV	74	PL 52B 489	V.N. Bolotov <i>et al.</i>	(SERP)

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