

$f_6(2510)$

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

OMITTED FROM SUMMARY TABLE
Needs confirmation.

NODE=M089

NODE=M089

NODE=M089M

NODE=M089M

NODE=M089M;LINKAGE=AN

NODE=M089W

NODE=M089W

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NODE=M089R1;LINKAGE=A

NODE=M089

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REFID=47472
REFID=46605
REFID=46914

REFID=21780
REFID=40288

REFID=44705

$f_6(2510)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
2470±50 OUR AVERAGE Error includes scale factor of 2.1.			
2420±30	ALDE	98	GAM4 100 $\pi^- p \rightarrow \pi^0 \pi^0 n$
2510±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±40	¹ ANISOVICH	00J	SPEC 1.92–2.41 $p\bar{p}$
¹ 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
260±40 OUR AVERAGE			
270±60	ALDE	98	GAM4 100 $\pi^- p \rightarrow \pi^0 \pi^0 n$
240±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±90	² ANISOVICH	00J	SPEC 1.92–2.41 $p\bar{p}$
² From the combined analysis of ANISOVICH 99C, ANISOVICH 99F, ANISOVICH 99J, ANISOVICH 99K, and ANISOVICH 00B.			

$f_6(2510)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \pi \pi$	(6.0±1.0) %

$f_6(2510)$ BRANCHING RATIOS

$\Gamma(\pi\pi)/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
0.06±0.01	³ BINON	83C	GAM2 38 $\pi^- p \rightarrow n 4\gamma$	
³ 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)