NODE=M089

$f_6(2510)$

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

OMITTED FROM SUMMARY TABLE

Needs confirmation.

NODE=M089

$f_6(2510)$ MASS

NODE=M089205

NODE=M089M

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
2465±50 OUR AVERAGE	Error includes scale factor of 2.1.			
2420±30	ALDE	98	GAM4	100 $\pi^- p \to \pi^0 \pi^0 n$
2510±30	BINON	84B	GAM2	38 $\pi^- p \to n 2\pi^0$

$f_6(2510)$ WIDTH

NODE=M089210

NODE=M089W

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
255±40 OUR AVERAGE				
270±60	ALDE	98	GAM4	100 $\pi^- p \to \pi^0 \pi^0 n$
240±60	BINON	84B	GAM2	38 $\pi^- p \to n 2\pi^0$

$f_6(2510)$ DECAY MODES

NODE=M089215;NODE=M089

	Mode	Fraction (Γ_i/Γ)
Γ_1	$\pi\pi$	(6.0±1.0) %

DESIG=1

$f_6(2510)$ BRANCHING RATIOS

NODE=M089220

$\Gamma(\pi\pi)/\Gamma_{total}$ Γ_1/Γ

NODE=M089R1

NODE=M089R1

VALUE	DOCUMENT ID		TECN	COMMENT
0.06±0.01	[1] BINON	83C	GAM2	38 $\pi^- p \to n 4\gamma$

[1] Assuming one pion exchange and using data of BOLOTOV 74.

NODE=M089R1;LINKAGE=A

$f_6(2510)$ REFERENCES

NODE=M089

ALDE 98 EPJ A3 361 D. Alde *et al.* (GAM4 Collab.) REFID=46605

Also PAN 62 405 D. Alde *et al.* (GAMS Collab.) REFID=46914

Translated from YAF 62 446.

BINON 84B LNC 39 41 F.G. Binon *et al.* (SERP, BELG, LAPP) JP REFID=21780

BINON 83C SJNP 38 723 F.G. Binon *et al.* (SERP, BRUX+) REFID=40288

Translated from YAF 38 1199.

BOLOTOV 74 PL 52B 489 V.N. Bolotov *et al.* (SERP) REFID=44705

OTHER RELATED PAPERS

BOLONKIN 00 JETPL 72 166 B.V. Bolonkin *et al.* REFID=47968

Translated from ZETFP 72 240.

PROKOSHKIN 99 PAN 62 356 Yu.D. Prokoshkin REFID=46946

Translated from YAF 62 396.

EISENHAND... 75 NP B96 109 E. Eisenhandler *et al.* (LOQM, LIVP, DARE+) REFID=21821