# $f_6(2510)$

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

OMITTED FROM SUMMARY TABLE

Needs confirmation.

## $f_6(2510)$ MASS

| *VALUE* (MeV) | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| **2465±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 $\pi^- p \rightarrow n2\pi^0$ |

## $f_6(2510)$ WIDTH

| *VALUE* (MeV) | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| **255±40 OUR AVERAGE** | | | | |
| 270±60 | ALDE | 98 | GAM4 | 100 $\pi^- p \rightarrow \pi^0\pi^0 n$ |
| 240±60 | BINON | 84B | GAM2 | 38 $\pi^- p \rightarrow n2\pi^0$ |

## $f_6(2510)$ DECAY MODES

| | Mode | Fraction ($\Gamma_i/\Gamma$) |
|---|---|---|
| $\Gamma_1$ | $\pi\pi$ | (6.0±1.0) % |

## $f_6(2510)$ BRANCHING RATIOS

### $\Gamma(\pi\pi)/\Gamma_{total}$ $\Gamma_1/\Gamma$

| *VALUE* | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| **0.06 ±0.01** | [1] BINON | 83C | GAM2 | 38 $\pi^- p \rightarrow n4\gamma$ |

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

## $f_6(2510)$ REFERENCES


| | | | | |
|---|---|---|---|---|
| ALDE | 98 | EPJ A3 361 | D. Alde *et al.* | (GAM4 Collab.) |
| Also | 99 | PAN 62 405 | D. Alde *et al.* | (GAMS Collab.) |
| BINON | 84B | LNC 39 41 | F.G. Binon *et al.* | (SERP, BELG, LAPP) JP |
| BINON | 83C | SJNP 38 723 | F.G. Binon *et al.* | (SERP, BRUX+) |
| | | Translated from YAF 38 1199. | | |
| BOLOTOV | 74 | PL 52B 489 | V.N. Bolotov *et al.* | (SERP) |


## OTHER RELATED PAPERS


| | | | | |
|---|---|---|---|---|
| BOLONKIN | 00 | JETPL 72 166 | B.V. Bolonkin *et al.* | |
| | | Translated from ZETFP 72 240. | | |
| PROKOSHKIN | 99 | PAN 62 356 | Yu.D. Prokoshkin *et al.* | |
| | | Translated from YAF 62 396. | | |
| EISENHAND... | 75 | NP B96 109 | E. Eisenhandler *et al.* | (LOQM, LIVP, DARE+) |