

$f_6(2510)$

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

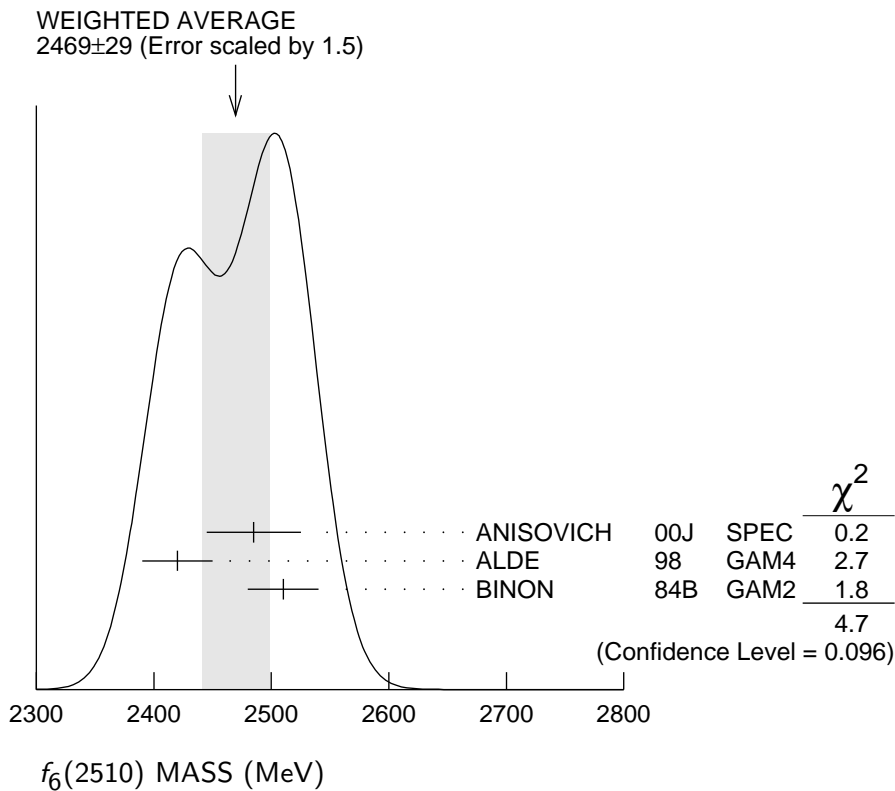
OMITTED FROM SUMMARY TABLE

Needs confirmation.

$f_6(2510)$ MASS

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|----------------------------|---|-------------|--|
| 2469±29 OUR AVERAGE | Error includes scale factor of 1.5. See the ideogram below. | | |
| 2485±40 | ¹ ANISOVICH | 00J | SPEC 1.92–2.41 $p\bar{p}$ |
| 2420±30 | ALDE | 98 | GAM4 100 $\pi^- p \rightarrow \pi^0 \pi^0 n$ |
| 2510±30 | BINON | 84B | GAM2 38 $\pi^- p \rightarrow n 2\pi^0$ |

¹From the combined analysis of ANISOVICH 99C, ANISOVICH 99F, ANISOVICH 99J, ANISOVICH 99K, and ANISOVICH 00B.



$f_6(2510)$ WIDTH

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|---------------------------|-------------------------------------|-------------|--|
| 283±40 OUR AVERAGE | Error includes scale factor of 1.1. | | |
| 410±90 | ² ANISOVICH | 00J | SPEC 1.92–2.41 $p\bar{p}$ |
| 270±60 | ALDE | 98 | GAM4 100 $\pi^- p \rightarrow \pi^0 \pi^0 n$ |
| 240±60 | BINON | 84B | GAM2 38 $\pi^- p \rightarrow n 2\pi^0$ |

²From 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) |
|-------------------------|--------------------------------|
| $\Gamma_1 \quad \pi\pi$ | $(6.0 \pm 1.0) \%$ |

$f_6(2510)$ BRANCHING RATIOS

| $\Gamma(\pi\pi)/\Gamma_{\text{total}}$ | VALUE | DOCUMENT ID | TECN | COMMENT | Γ_1/Γ |
|--|--------------------|-------------|------|-----------------------------------|-------------------|
| 0.06 ± 0.01 | ³ BINON | 83C | GAM2 | $38 \pi^- p \rightarrow n4\gamma$ | |

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> | |
| 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) |