

$f_2(2010)$

$$I^G(J^{PC}) = 0^+(2^{++})$$

$f_2(2010)$ MASS

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|---|-----------------------|-------------|---|
| 2011^{+62}_{-76} | ¹ ETKIN | 88 | MPS 22 $\pi^- p \rightarrow \phi\phi n$ |
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● | | | |
| 2005 ± 12 | VLADIMIRSK...06 | SPEC | 40 $\pi^- p \rightarrow K_S^0 K_S^0 n$ |
| 1980 ± 20 | ² BOLONKIN | 88 | SPEC 40 $\pi^- p \rightarrow K_S^0 K_S^0 n$ |
| 2050 ⁺⁹⁰ ₋₅₀ | ETKIN | 85 | MPS 22 $\pi^- p \rightarrow 2\phi n$ |
| 2120 ⁺²⁰ ₋₁₂₀ | LINDENBAUM | 84 | RVUE |
| 2160 ± 50 | ETKIN | 82 | MPS 22 $\pi^- p \rightarrow 2\phi n$ |

¹ Includes data of ETKIN 85. The percentage of the resonance going into $\phi\phi$ 2^{++} S_2 , D_2 , and D_0 is 98^{+1}_{-3} , 0^{+1}_{-0} , and 2^{+2}_{-1} , respectively.

² Statistically very weak, only 1.4 s.d.

$f_2(2010)$ WIDTH

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|---|-----------------------|-------------|---|
| 202^{+67}_{-62} | ³ ETKIN | 88 | MPS 22 $\pi^- p \rightarrow \phi\phi n$ |
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● | | | |
| 209 ± 32 | VLADIMIRSK...06 | SPEC | 40 $\pi^- p \rightarrow K_S^0 K_S^0 n$ |
| 145 ± 50 | ⁴ BOLONKIN | 88 | SPEC 40 $\pi^- p \rightarrow K_S^0 K_S^0 n$ |
| 200 ⁺¹⁶⁰ ₋₅₀ | ETKIN | 85 | MPS 22 $\pi^- p \rightarrow 2\phi n$ |
| 300 ⁺¹⁵⁰ ₋₅₀ | LINDENBAUM | 84 | RVUE |
| 310 ± 70 | ETKIN | 82 | MPS 22 $\pi^- p \rightarrow 2\phi n$ |

³ Includes data of ETKIN 85.

⁴ Statistically very weak, only 1.4 s.d.

$f_2(2010)$ DECAY MODES

| Mode | Fraction (Γ_i/Γ) |
|-----------------------|--------------------------------|
| Γ_1 $\phi\phi$ | seen |
| Γ_2 $K\bar{K}$ | seen |

$f_2(2010)$ BRANCHING RATIOS

| $\Gamma(K\bar{K})/\Gamma_{\text{total}}$ | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> | Γ_2/Γ |
|--|--------------------|-------------|--|-------------------|
| seen | VLADIMIRSK...06 | SPEC | 40 $\pi^- p \rightarrow K_S^0 K_S^0 n$ | |

$f_2(2010)$ REFERENCES

| | | | |
|------------------|-----------------------------|--------------------------------|----------------|
| VLADIMIRSK... 06 | PAN 69 493 | V.V. Vladimirsky <i>et al.</i> | (ITEP, Moscow) |
| | Translated from YAF 69 515. | | |
| BOLONKIN 88 | NP B309 426 | B.V. Bolonkin <i>et al.</i> | (ITEP, SERP) |
| ETKIN 88 | PL B201 568 | A. Etkin <i>et al.</i> | (BNL, CUNY) |
| ETKIN 85 | PL 165B 217 | A. Etkin <i>et al.</i> | (BNL, CUNY) |
| LINDENBAUM 84 | CNPP 13 285 | S.J. Lindenbaum | (CUNY) |
| ETKIN 82 | PRL 49 1620 | A. Etkin <i>et al.</i> | (BNL, CUNY) |
| Also | Brighton Conf. 351 | S.J. Lindenbaum | (BNL, CUNY) |
