

$f_2(2300)$

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

 $f_2(2300)$ MASS

| VALUE (MeV) | DOCUMENT ID | TECN | COMMENT |
|------------------------------------|---|------|---|
| 2297±28 | ¹ ETKIN | 88 | MPS 22 $\pi^- p \rightarrow \phi \phi n$ |
| ••• | We do not use the following data for averages, fits, limits, etc. ••• | | |
| 2270±12 | VLADIMIRSK...06 | SPEC | 40 $\pi^- p \rightarrow K_S^0 K_S^0 n$ |
| 2327±9±6 | ABE | 04 | BELL 10.6 $e^+ e^- \rightarrow e^+ e^- K^+ K^-$ |
| 2240±15 | ANISOVICH | 00J | SPEC $p\bar{p} \rightarrow \pi^0 \pi^0 \eta$ |
| 2231±10 | BOOTH | 86 | OMEG 85 $\pi^- Be \rightarrow 2\phi Be$ |
| 2220 ⁺⁹⁰ ₋₂₀ | LINDENBAUM | 84 | RVUE |
| 2320±40 | ETKIN | 82 | MPS 22 $\pi^- p \rightarrow 2\phi n$ |

¹Includes data of ETKIN 85. The percentage of the resonance going into $\phi\phi$ 2^{++} S_2 , D_2 , and D_0 is 6^{+15}_{-5} , 25^{+18}_{-14} , and 69^{+16}_{-27} , respectively.

 $f_2(2300)$ WIDTH

| VALUE (MeV) | DOCUMENT ID | TECN | COMMENT |
|---------------|---|------|---|
| 149±41 | ² ETKIN | 88 | MPS 22 $\pi^- p \rightarrow \phi \phi n$ |
| ••• | We do not use the following data for averages, fits, limits, etc. ••• | | |
| 90±29 | VLADIMIRSK...06 | SPEC | 40 $\pi^- p \rightarrow K_S^0 K_S^0 n$ |
| 275±36±20 | ABE | 04 | BELL 10.6 $e^+ e^- \rightarrow e^+ e^- K^+ K^-$ |
| 241±30 | ANISOVICH | 00J | SPEC $p\bar{p} \rightarrow \pi^0 \pi^0 \eta$ |
| 133±50 | BOOTH | 86 | OMEG 85 $\pi^- Be \rightarrow 2\phi Be$ |
| 200±50 | LINDENBAUM | 84 | RVUE |
| 220±70 | ETKIN | 82 | MPS 22 $\pi^- p \rightarrow 2\phi n$ |

²Includes data of ETKIN 85.

 $f_2(2300)$ DECAY MODES

| Mode | Fraction (Γ_i/Γ) |
|---------------------------|--------------------------------|
| Γ_1 $\phi\phi$ | seen |
| Γ_2 $K\bar{K}$ | seen |
| Γ_3 $\gamma\gamma$ | seen |

 $f_2(2300)$ $\Gamma(i)\Gamma(\gamma\gamma)/\Gamma(\text{total})$

| $\Gamma(K\bar{K}) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}}$ | $\Gamma_2\Gamma_3/\Gamma$ | | |
|--|---|------|---|
| VALUE (eV) | DOCUMENT ID | TECN | COMMENT |
| ••• | We do not use the following data for averages, fits, limits, etc. ••• | | |
| 44±6±12 | ³ ABE | 04 | BELL 10.6 $e^+ e^- \rightarrow e^+ e^- K^+ K^-$ |

³Assuming spin 2.

$f_2(2300)$ REFERENCES

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| ABE | 04 | EPJ C32 323 | K. Abe <i>et al.</i> | (BELLE Collab.) |
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| ETKIN | 85 | PL 165B 217 | A. Etkin <i>et al.</i> | (BNL, CUNY) |
| LINDENBAUM | 84 | CNPP 13 285 | S.J. Lindenbaum | (CUNY) |
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