

# $f_2(2300)$

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

See also the mini-review under non- $q\bar{q}$  candidates. (See the index for the page number.)

## $f_2(2300)$ MASS

| <u>VALUE (MeV)</u>  | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u>                                   |
|---|--------------------|-------------|--|
| <b>2297±28</b>  | <sup>1</sup> ETKIN | 88 MPS      | 22 $\pi^- p \rightarrow \phi\phi n$              |
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● |                    |             |  |
| 2240±15   | ANISOVICH          | 00J SPEC    | $p\bar{p} \rightarrow \pi^0 \pi^0 \eta$          |
| 2231±10   | BOOTH              | 86 OMEG     | 85 $\pi^- \text{Be} \rightarrow 2\phi \text{Be}$ |
| 2220 <sup>+90</sup> <sub>-20</sub>  | LINDENBAUM         | 84 RVUE     |  |
| 2320±40   | ETKIN              | 82 MPS      | 22 $\pi^- p \rightarrow 2\phi n$                 |

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

## $f_2(2300)$ WIDTH

| <u>VALUE (MeV)</u>  | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u>                                   |
|---|--------------------|-------------|--|
| <b>149±41</b>   | <sup>2</sup> ETKIN | 88 MPS      | 22 $\pi^- p \rightarrow \phi\phi n$              |
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● |                    |             |  |
| 241±30  | ANISOVICH          | 00J SPEC    | $p\bar{p} \rightarrow \pi^0 \pi^0 \eta$          |
| 133±50  | BOOTH              | 86 OMEG     | 85 $\pi^- \text{Be} \rightarrow 2\phi \text{Be}$ |
| 200±50  | LINDENBAUM         | 84 RVUE     |  |
| 220±70  | ETKIN              | 82 MPS      | 22 $\pi^- p \rightarrow 2\phi n$                 |

<sup>2</sup> Includes data of ETKIN 85.

## $f_2(2300)$ DECAY MODES

| Mode                      | Fraction ( $\Gamma_i/\Gamma$ ) |
|---------------------------|--------------------------------|
| $\Gamma_1 \quad \phi\phi$ | seen                           |

## $f_2(2300)$ REFERENCES

|            |     |             |                              |                    |
|------------|-----|-------------|------------------------------|--------------------|
| ANISOVICH  | 00J | PL B491 47  | A.V. Anisovich <i>et al.</i> |                    |
| ETKIN      | 88  | PL B201 568 | A. Etkin <i>et al.</i>       | (BNL, CUNY)        |
| BOOTH      | 86  | NP B273 677 | P.S.L. Booth <i>et al.</i>   | (LIVP, GLAS, CERN) |
| 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)        |

————— **OTHER RELATED PAPERS** —————

|              |     |                               |                               |                     |
|--------------|-----|-------------------------------|-------------------------------|---------------------|
| AMELIN       | 00  | NP A668 83                    | D. Amelin <i>et al.</i>       | (VES Collab.)       |
| BOLONKIN     | 00  | JETPL 72 166                  | B.V. Bolonkin <i>et al.</i>   |                     |
|              |     | Translated from ZETFP 72 240. |                               |                     |
| BARBERIS     | 98  | PL B432 436                   | D. Barberis <i>et al.</i>     | (Omega Expt.)       |
| LANDBERG     | 96  | PR D53 2839                   | C. Landberg <i>et al.</i>     | (BNL, CUNY, RPI)    |
| ARMSTRONG    | 89B | PL B221 221                   | T.A. Armstrong <i>et al.</i>  | (CERN, CDEF, BIRM+) |
| GREEN        | 86  | PRL 56 1639                   | D.R. Green <i>et al.</i>      | (FNAL, ARIZ, FSU+)  |
| BOOTH        | 84  | NP B242 51                    | P.S.L. Booth <i>et al.</i>    | (LIVP, GLAS, CERN)  |
| EISENHAND... | 75  | NP B96 109                    | E. Eisenhandler <i>et al.</i> | (LOQM, LIVP, DARE+) |

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