# $f_2(2010)$

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

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

## $f_2(2010)$ MASS

| VALUE (MeV) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **$2011^{+\ 62}_{-\ 76}$** | [1] ETKIN | 88 | MPS | $22\ \pi^- p \rightarrow \phi\phi n$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| $1980 \pm 20$ | [2] BOLONKIN | 88 | SPEC | $40\ \pi^- p \rightarrow K^0_S K^0_S n$ |
| $2050^{+\ 90}_{-\ 50}$ | ETKIN | 85 | MPS | $22\ \pi^- p \rightarrow 2\phi n$ |
| $2120^{+\ 20}_{-120}$ | LINDENBAUM | 84 | RVUE | |
| $2160 \pm 50$ | 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

| VALUE (MeV) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **$202^{+\ 67}_{=\ 62}$** | [3] ETKIN | 88 | MPS | $22\ \pi^- p \rightarrow \phi\phi n$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| $145 \pm 50$ | [4] BOLONKIN | 88 | SPEC | $40\ \pi^- p \rightarrow K^0_S K^0_S n$ |
| $200^{+160}_{-\ 50}$ | ETKIN | 85 | MPS | $22\ \pi^- p \rightarrow 2\phi n$ |
| $300^{+150}_{-\ 50}$ | LINDENBAUM | 84 | RVUE | |
| $310 \pm 70$ | 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 ($\Gamma_i/\Gamma$) |
|---|---|---|
| $\Gamma_1$ | $\phi\phi$ | seen |

## $f_2(2010)$ REFERENCES


| | | | | |
|---|---|---|---|---|
| BOLONKIN | 88 | NP B309 426 | +Bloshenko, Gorin+ | (ITEP, SERP) |
| ETKIN | 88 | PL B201 568 | +Foley, Lindenbaum+ | (BNL, CUNY) |
| ETKIN | 85 | PL 165B 217 | +Foley, Longacre, Lindenbaum+ | (BNL, CUNY) |
| LINDENBAUM | 84 | CNPP 13 285 | | (CUNY) |
| ETKIN | 82 | PRL 49 1620 | +Foley, Longacre, Lindenbaum+ | (BNL, CUNY) |
| Also | 83 | Brighton Conf. 351 | Lindenbaum | (BNL, CUNY) |


### OTHER RELATED PAPERS


| | | | | |
|---|---|---|---|---|
| ARMSTRONG | 89B | PL B221 221 | +Benayoun+ | (CERN, CDEF, BIRM, BARI, ATHU, CURIN+) |
| GREEN | 86 | PRL 56 1639 | +Lai+ | (FNAL, ARIZ, FSU, NDAM, TUFTS, VAND+) |
| BOOTH | 84 | NP B242 51 | +Ballance, Carroll, Donald+ | (LIVP, GLAS, CERN) |