

# $f_0(2100)$

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

OMITTED FROM SUMMARY TABLE

Needs confirmation.

## $f_0(2100)$ MASS

| VALUE (MeV)   | EVTS | DOCUMENT ID                | TECN | COMMENT  |
|---|------|----------------------------|------|--|
| <b>2103 ± 8 OUR AVERAGE</b>   |      |                            |      |  |
| 2102 ± 13   |      | <sup>1</sup> ANISOVICH 00J | SPEC | 2.0 $\bar{p}p \rightarrow \eta\pi^0\pi^0, \pi^0\pi^0, \eta\eta, \eta\eta', \pi^+\pi^-$ |
| 2090 ± 30   |      | BAI 00A                    | BES  | $J/\psi \rightarrow \gamma(\pi^+\pi^-\pi^+\pi^-)$                                      |
| 2105 ± 10   |      | ANISOVICH 99K              | SPEC | 0.6–1.94 $\bar{p}p \rightarrow \eta\eta, \eta\eta'$                                    |
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● |      |                            |      |  |
| 2105 ± 8  | 80k  | <sup>2</sup> UMAN 06       | E835 | 5.2 $\bar{p}p \rightarrow \eta\eta\pi^0$   |
| ~ 2104  |      | BUGG 95                    |      | $J/\psi \rightarrow \gamma\pi^+\pi^-\pi^+\pi^-$  |
| ~ 2122  |      | HASAN 94                   | RVUE | $\bar{p}p \rightarrow \pi\pi$  |

<sup>1</sup> Includes the data of ANISOVICH 00B indicating to exotic decay pattern.

<sup>2</sup> Statistical error only.

## $f_0(2100)$ WIDTH

| VALUE (MeV)   | EVTS | DOCUMENT ID                | TECN | COMMENT  |
|---|------|----------------------------|------|--|
| <b>209 ± 19 OUR AVERAGE</b>   |      |                            |      |  |
| 211 ± 29  |      | <sup>3</sup> ANISOVICH 00J | SPEC | 2.0 $\bar{p}p \rightarrow \eta\pi^0\pi^0, \pi^0\pi^0, \eta\eta, \eta\eta', \pi^+\pi^-$ |
| 330 ± 100   |      | BAI 00A                    | BES  | $J/\psi \rightarrow \gamma(\pi^+\pi^-\pi^+\pi^-)$                                      |
| 200 ± 25  |      | ANISOVICH 99K              | SPEC | 0.6–1.94 $\bar{p}p \rightarrow \eta\eta, \eta\eta'$                                    |
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● |      |                            |      |  |
| 236 ± 14  | 80k  | <sup>4</sup> UMAN 06       | E835 | 5.2 $\bar{p}p \rightarrow \eta\eta\pi^0$   |
| ~ 203   |      | BUGG 95                    |      | $J/\psi \rightarrow \gamma\pi^+\pi^-\pi^+\pi^-$  |
| ~ 273   |      | HASAN 94                   | RVUE | $\bar{p}p \rightarrow \pi\pi$  |

<sup>3</sup> Includes the data of ANISOVICH 00B indicating to exotic decay pattern.

<sup>4</sup> Statistical error only.

## $f_0(2100)$ REFERENCES

|               |               |                              |                    |
|---------------|---------------|------------------------------|--------------------|
| UMAN 06       | PR D73 052009 | I. Uman <i>et al.</i>        | (FNAL E835)        |
| ANISOVICH 00B | NP A662 319   | A.V. Anisovich <i>et al.</i> |                    |
| ANISOVICH 00J | PL B491 47    | A.V. Anisovich <i>et al.</i> |                    |
| BAI 00A       | PL B472 207   | J.Z. Bai <i>et al.</i>       | (BES Collab.)      |
| ANISOVICH 99K | PL B468 309   | A.V. Anisovich <i>et al.</i> |                    |
| BUGG 95       | PL B353 378   | D.V. Bugg <i>et al.</i>      | (LOQM, PNPI, WASH) |
| HASAN 94      | PL B334 215   | A. Hasan, D.V. Bugg          | (LOQM)             |