

# ρ(1900)

$$I^G(J^{PC}) = 1^+(1^{--})$$

OMITTED FROM SUMMARY TABLE

See the mini-review under the ρ(1700).

## ρ(1900) MASS

| VALUE (MeV) | DOCUMENT ID | TECN | COMMENT |
|-------------|-------------|------|---------|
|-------------|-------------|------|---------|

• • • We do not use the following data for averages, fits, limits, etc. • • •

|           |                         |    |   |
|-----------|-------------------------|----|---|
| 1910 ± 10 | <sup>1,2</sup> FRABETTI | 04 | E687 $\gamma p \rightarrow 3\pi^+ 3\pi^- p$ |
| 1870 ± 10 | ANTONELLI               | 96 | SPEC $e^+ e^- \rightarrow$ hadrons          |

<sup>1</sup> From a fit with two resonances with the JACOB 72 continuum.

<sup>2</sup> Supersedes FRABETTI 01.

## ρ(1900) WIDTH

| VALUE (MeV) | DOCUMENT ID | TECN | COMMENT |
|-------------|-------------|------|---------|
|-------------|-------------|------|---------|

• • • We do not use the following data for averages, fits, limits, etc. • • •

|         |                         |    |   |
|---------|-------------------------|----|---|
| 37 ± 13 | <sup>3,4</sup> FRABETTI | 04 | E687 $\gamma p \rightarrow 3\pi^+ 3\pi^- p$ |
| 10 ± 5  | ANTONELLI               | 96 | SPEC $e^+ e^- \rightarrow$ hadrons          |

<sup>3</sup> From a fit with two resonances with the JACOB 72 continuum.

<sup>4</sup> Supersedes FRABETTI 01.

## ρ(1900) DECAY MODES

| Mode   | Fraction ( $\Gamma_i/\Gamma$ ) |
|--|--------------------------------|
| Γ <sub>1</sub> 6π                              | seen                           |
| Γ <sub>2</sub> 3π <sup>+</sup> 3π <sup>-</sup> | seen                           |
| Γ <sub>3</sub> hadrons                         | seen                           |
| Γ <sub>4</sub> e <sup>+</sup> e <sup>-</sup>   | seen                           |
| Γ <sub>5</sub> $\bar{N} N$                     | not seen                       |

## ρ(1900) BRANCHING RATIOS

| $\Gamma(6\pi)/\Gamma_{\text{total}}$ | DOCUMENT ID | TECN | COMMENT  | $\Gamma_1/\Gamma$ |
|--------------------------------------|-------------|------|--|-------------------|
| not seen                             | AGNELLO     | 02   | OBLX $\bar{n} p \rightarrow 3\pi^+ 2\pi^- \pi^0$ |                   |
| seen                                 | FRABETTI    | 01   | E687 $\gamma p \rightarrow 3\pi^+ 3\pi^- p$      |                   |
| seen                                 | ANTONELLI   | 96   | SPEC $e^+ e^- \rightarrow$ hadrons               |                   |

## ρ(1900) REFERENCES

|           |    |             |                             |                     |
|-----------|----|-------------|-----------------------------|---------------------|
| FRABETTI  | 04 | PL B578 290 | P.L. Frabetti <i>et al.</i> | (FNAL E687 Collab.) |
| AGNELLO   | 02 | PL B527 39  | M. Agnello <i>et al.</i>    | (OBELIX Collab.)    |
| FRABETTI  | 01 | PL B514 240 | P.L. Frabetti <i>et al.</i> | (FNAL E687 Collab.) |
| ANTONELLI | 96 | PL B365 427 | A. Antonelli <i>et al.</i>  | (FENICE Collab.)    |
| JACOB     | 72 | PR D5 1847  | M. Jacob, R. Slansky        |                     |

————— **OTHER RELATED PAPERS** —————

|        |     |                    |   |
|--------|-----|--------------------|---|
| DATTA  | 03B | PL B567 273        | A. Datta, P.J. O'Donnell                  |
| PAGE   | 99  | PR D59 034016      | P.R. Page, E.S. Swanson, A.P. Szczepaniak |
| CLEGG  | 90  | ZPHY C45 677       | A.B. Clegg, A. Donnachie (LANC, MCHS)     |
| CASTRO | 88  | Preprint LAL-88-58 | A. Castro <i>et al.</i> (DM2 Collab.)     |

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