

$\pi_2(2100)$ 

$$I^G(J^{PC}) = 1^-(2^-+)$$

OMITTED FROM SUMMARY TABLE

Needs confirmation.

 $\pi_2(2100)$  MASS

| VALUE (MeV)                  | DOCUMENT ID         | TECN     | COMMENT                                      |
|------------------------------|---------------------|----------|--|
| <b>2090 ± 29 OUR AVERAGE</b> |                     |          |  |
| 2090 ± 30                    | <sup>1</sup> AMELIN | 95B VES  | 36 $\pi^- A \rightarrow \pi^+ \pi^- \pi^- A$ |
| 2100 ± 150                   | <sup>2</sup> DAUM   | 81B CNTR | 63,94 $\pi^- p \rightarrow 3\pi X$           |

<sup>1</sup> From a fit to  $J^{PC} = 2^-+ f_2(1270)\pi, (\pi\pi)_s\pi$  waves.  
<sup>2</sup> From a two-resonance fit to four  $2^-0^+$  waves.

 $\pi_2(2100)$  WIDTH

| VALUE (MeV)                 | DOCUMENT ID                         | TECN     | COMMENT                                      |
|-----------------------------|-------------------------------------|----------|--|
| <b>625 ± 50 OUR AVERAGE</b> | Error includes scale factor of 1.2. |          |  |
| 520 ± 100                   | <sup>3</sup> AMELIN                 | 95B VES  | 36 $\pi^- A \rightarrow \pi^+ \pi^- \pi^- A$ |
| 651 ± 50                    | <sup>4</sup> DAUM                   | 81B CNTR | 63,94 $\pi^- p \rightarrow 3\pi X$           |

<sup>3</sup> From a fit to  $J^{PC} = 2^-+ f_2(1270)\pi, (\pi\pi)_s\pi$  waves.  
<sup>4</sup> From a two-resonance fit to four  $2^-0^+$  waves.

 $\pi_2(2100)$  DECAY MODES

| Mode                       | Fraction ( $\Gamma_i/\Gamma$ ) |
|----------------------------|--------------------------------|
| $\Gamma_1$ $3\pi$          | seen                           |
| $\Gamma_2$ $\rho\pi$       | seen                           |
| $\Gamma_3$ $f_2(1270)\pi$  | seen                           |
| $\Gamma_4$ $(\pi\pi)_s\pi$ | seen                           |

 $\pi_2(2100)$  BRANCHING RATIOS

|                                      |                   |                     |                 |
|--------------------------------------|-------------------|---------------------|-----------------|
| $\Gamma(\rho\pi)/\Gamma(3\pi)$       |                   | $\Gamma_2/\Gamma_1$ |                 |
| VALUE                                | DOCUMENT ID       | TECN                | COMMENT         |
| <b>0.19 ± 0.05</b>                   | <sup>5</sup> DAUM | 81B CNTR            | 63,94 $\pi^- p$ |
| $\Gamma(f_2(1270)\pi)/\Gamma(3\pi)$  |                   | $\Gamma_3/\Gamma_1$ |                 |
| VALUE                                | DOCUMENT ID       | TECN                | COMMENT         |
| <b>0.36 ± 0.09</b>                   | <sup>5</sup> DAUM | 81B CNTR            | 63,94 $\pi^- p$ |
| $\Gamma((\pi\pi)_s\pi)/\Gamma(3\pi)$ |                   | $\Gamma_4/\Gamma_1$ |                 |
| VALUE                                | DOCUMENT ID       | TECN                | COMMENT         |
| <b>0.45 ± 0.07</b>                   | <sup>5</sup> DAUM | 81B CNTR            | 63,94 $\pi^- p$ |

**D-wave/S-wave RATIO FOR  $\pi_2(2100) \rightarrow f_2(1270)\pi$**

| <u>VALUE</u>                      | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u>       |
|-----------------------------------|--------------------|-------------|----------------------|
| <b><math>0.39 \pm 0.23</math></b> | <sup>5</sup> DAUM  | 81B         | CNTR 63,94 $\pi^- p$ |

<sup>5</sup> From a two-resonance fit to four  $2^-0^+$  waves.

**$\pi_2(2100)$  REFERENCES**

|        |                 |                           |                           |
|--------|-----------------|---------------------------|---------------------------|
| AMELIN | 95B PL B356 595 | D.V. Amelin <i>et al.</i> | (SERP, TBIL)              |
| DAUM   | 81B NP B182 269 | C. Daum <i>et al.</i>     | (AMST, CERN, CRAC, MPIM+) |