

$\pi_2(2005)$

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

OMITTED FROM SUMMARY TABLE

 $\pi_2(2005)$ MASS

| VALUE (MeV) | EVTS | DOCUMENT ID | TECN | COMMENT |
|---|------|-----------------------|------|--|
| 1963⁺¹⁷₋₂₇ OUR AVERAGE | | | | |
| 1962 ⁺¹⁷ ₋₂₉ | 46M | ¹ AGHASYAN | 18B | COMP 190 $\pi^- p \rightarrow \pi^- \pi^+ \pi^- p$ |
| 1974 ± 14 ± 83 | 145k | LU | 05 | B852 18 $\pi^- p \rightarrow \omega \pi^- \pi^0 p$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 2005 ± 15 | | ANISOVICH | 01F | SPEC 2.0 $\bar{p} p \rightarrow 3\pi^0, \pi^0 \eta, \pi^0 \eta'$ |
| ¹ Statistical uncertainty negligible. | | | | |

 $\pi_2(2005)$ WIDTH

| VALUE (MeV) | EVTS | DOCUMENT ID | TECN | COMMENT |
|---|------|-----------------------|------|--|
| 370⁺₋₉₀ OUR AVERAGE | | | | |
| 371 ⁺ ₋₁₂₀ | 46M | ¹ AGHASYAN | 18B | COMP 190 $\pi^- p \rightarrow \pi^- \pi^+ \pi^- p$ |
| 341 ± 61 ± 139 | 145k | LU | 05 | B852 18 $\pi^- p \rightarrow \omega \pi^- \pi^0 p$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 200 ± 40 | | ANISOVICH | 01F | SPEC 2.0 $\bar{p} p \rightarrow 3\pi^0, \pi^0 \eta, \pi^0 \eta'$ |
| ¹ Statistical uncertainty negligible. | | | | |

 $\pi_2(2005)$ DECAY MODES

| Mode | Fraction (Γ_i/Γ) |
|---------------------------------|--------------------------------|
| Γ_1 $\pi^- \pi^+ \pi^-$ | seen |
| Γ_2 $\omega \pi^0 \pi^-$ | seen |

 $\pi_2(2005)$ BRANCHING RATIOS

| $\Gamma(\pi^- \pi^+ \pi^-)/\Gamma_{\text{total}}$ | Γ_1/Γ | | |
|--|-------------------|------|--|
| VALUE | DOCUMENT ID | TECN | COMMENT |
| seen | AGHASYAN | 18B | COMP 190 $\pi^- p \rightarrow \pi^- \pi^+ \pi^- p$ |
| $\Gamma(\omega \pi^0 \pi^-)/\Gamma_{\text{total}}$ | Γ_2/Γ | | |
| VALUE | DOCUMENT ID | TECN | COMMENT |
| seen | LU | 05 | B852 18 $\pi^- p \rightarrow \omega \pi^- \pi^0 p$ |

π_2 (2005) REFERENCES

| | | | | |
|-----------|-----|---------------|------------------------------|--------------------|
| AGHASYAN | 18B | PR D98 092003 | M. Aghasyan <i>et al.</i> | (COMPASS Collab.) |
| LU | 05 | PRL 94 032002 | M. Lu <i>et al.</i> | (BNL E852 Collab.) |
| ANISOVICH | 01F | PL B517 261 | A.V. Anisovich <i>et al.</i> | |
