

$\Delta(2350) 5/2^-$ $I(J^P) = \frac{3}{2}(\frac{5}{2}^-)$ Status: *

OMITTED FROM SUMMARY TABLE

 $\Delta(2350)$ POLE POSITION**REAL PART**

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|---|--------------------|-------------|---------------------------|
| 2400±125 | CUTKOSKY 80 | IPWA | $\pi N \rightarrow \pi N$ |
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● | | | |
| 2427 | VRANA 00 | DPWA | Multichannel |

−2×IMAGINARY PART

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|---|--------------------|-------------|---------------------------|
| 400±150 | CUTKOSKY 80 | IPWA | $\pi N \rightarrow \pi N$ |
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● | | | |
| 458 | VRANA 00 | DPWA | Multichannel |

 $\Delta(2350)$ ELASTIC POLE RESIDUE**MODULUS $|r|$**

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|--------------------|--------------------|-------------|---------------------------|
| 15±8 | CUTKOSKY 80 | IPWA | $\pi N \rightarrow \pi N$ |

PHASE θ

| <u>VALUE (°)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|------------------|--------------------|-------------|---------------------------|
| −70±70 | CUTKOSKY 80 | IPWA | $\pi N \rightarrow \pi N$ |

 $\Delta(2350)$ BREIT-WIGNER MASS

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|---|--------------------|-------------|---------------------------|
| 2400±125 | CUTKOSKY 80 | IPWA | $\pi N \rightarrow \pi N$ |
| 2305±26 | HOEHLER 79 | IPWA | $\pi N \rightarrow \pi N$ |
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● | | | |
| 2459±100 | VRANA 00 | DPWA | Multichannel |

 $\Delta(2350)$ BREIT-WIGNER WIDTH

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|---|--------------------|-------------|---------------------------|
| 400±150 | CUTKOSKY 80 | IPWA | $\pi N \rightarrow \pi N$ |
| 300±70 | HOEHLER 79 | IPWA | $\pi N \rightarrow \pi N$ |
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● | | | |
| 480±360 | VRANA 00 | DPWA | Multichannel |

$\Delta(2350)$ DECAY MODES

| Mode | Fraction (Γ_j/Γ) |
|-----------------------|--------------------------------|
| $\Gamma_1 \quad N\pi$ | 4–30 % |

$\Delta(2350)$ BRANCHING RATIOS

| $\Gamma(N\pi)/\Gamma_{\text{total}}$ | | | | Γ_1/Γ |
|---|-------------|------|---------------------------|-------------------|
| VALUE (%) | DOCUMENT ID | TECN | COMMENT | |
| 20 ± 10 | CUTKOSKY 80 | IPWA | $\pi N \rightarrow \pi N$ | |
| 4 ± 2 | HOEHLER 79 | IPWA | $\pi N \rightarrow \pi N$ | |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 7 ± 14 | VRANA 00 | DPWA | Multichannel | |

$\Delta(2350)$ REFERENCES

| | | | |
|-------------|------------------|--------------------------------------|----------------|
| VRANA 00 | PRPL 328 181 | T.P. Vrana, S.A. Dytman, T.-S.H. Lee | (PITT, ANL) |
| CUTKOSKY 80 | Toronto Conf. 19 | R.E. Cutkosky <i>et al.</i> | (CMU, LBL) IJP |
| Also | PR D20 2839 | R.E. Cutkosky <i>et al.</i> | (CMU, LBL) |
| HOEHLER 79 | PDAT 12-1 | G. Hohler <i>et al.</i> | (KARLT) IJP |
| Also | Toronto Conf. 3 | R. Koch | (KARLT) IJP |