

$\Delta(1750) 1/2^+$ $I(J^P) = \frac{3}{2}(\frac{1}{2}^+)$ Status: *

OMITTED FROM SUMMARY TABLE

 $\Delta(1750)$ POLE POSITION**REAL PART**

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|---|--------------------|-------------|--|
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● | | | |
| 1748 | ARNDT | 04 | DPWA $\pi N \rightarrow \pi N, \eta N$ |
| 1714 | VRANA | 00 | DPWA Multichannel |

−2×IMAGINARY PART

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|---|--------------------|-------------|--|
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● | | | |
| 524 | ARNDT | 04 | DPWA $\pi N \rightarrow \pi N, \eta N$ |
| 68 | VRANA | 00 | DPWA Multichannel |

 $\Delta(1750)$ ELASTIC POLE RESIDUE**MODULUS $|r|$**

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|---|--------------------|-------------|--|
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● | | | |
| 48 | ARNDT | 04 | DPWA $\pi N \rightarrow \pi N, \eta N$ |

PHASE θ

| <u>VALUE (°)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|---|--------------------|-------------|--|
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● | | | |
| 158 | ARNDT | 04 | DPWA $\pi N \rightarrow \pi N, \eta N$ |

 $\Delta(1750)$ BREIT-WIGNER MASS

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|---|--------------------|-------------|-------------------|
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● | | | |
| 1712 ± 1 | PENNER | 02C | DPWA Multichannel |
| 1721 ± 61 | VRANA | 00 | DPWA Multichannel |

 $\Delta(1750)$ BREIT-WIGNER WIDTH

| <u>VALUE (MeV)</u> | <u>DOCUMENT ID</u> | <u>TECN</u> | <u>COMMENT</u> |
|---|--------------------|-------------|-------------------|
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● | | | |
| 643 ± 17 | PENNER | 02C | DPWA Multichannel |
| 70 ± 50 | VRANA | 00 | DPWA Multichannel |

$\Delta(1750)$ DECAY MODES

| Mode | Fraction (Γ_i/Γ) |
|-------------------------|--------------------------------|
| Γ_1 $N\pi$ | seen |
| Γ_2 $N(1440)\pi$ | seen |
| Γ_3 ΣK | seen |

 $\Delta(1750)$ BRANCHING RATIOS **$\Gamma(N\pi)/\Gamma_{\text{total}}$ Γ_1/Γ**

| VALUE (%) | DOCUMENT ID | TECN | COMMENT |
|---|-------------|------|-------------------|
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | |
| 1±1 | PENNER | 02C | DPWA Multichannel |
| 6±9 | VRANA | 00 | DPWA Multichannel |

 $\Gamma(N(1440)\pi)/\Gamma_{\text{total}}$ Γ_2/Γ

| VALUE (%) | DOCUMENT ID | TECN | COMMENT |
|---|-------------|------|-------------------|
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | |
| 83±1 | VRANA | 00 | DPWA Multichannel |

 $\Gamma(\Sigma K)/\Gamma_{\text{total}}$ Γ_3/Γ

| VALUE (%) | DOCUMENT ID | TECN | COMMENT |
|---|-------------|------|-------------------|
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | |
| 0.1±0.1 | PENNER | 02C | DPWA Multichannel |

 $\Delta(1750)$ BREIT-WIGNER PHOTON DECAY AMPLITUDES

Papers on γN amplitudes predating 1981 may be found in our 2006 edition, Journal of Physics **G33** 1 (2006).

 $\Delta(1750) \rightarrow N\gamma$, helicity-1/2 amplitude $A_{1/2}$

| VALUE ($\text{GeV}^{-1/2}$) | DOCUMENT ID | TECN | COMMENT |
|---|-------------|------|-------------------|
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | |
| 0.053 | PENNER | 02D | DPWA Multichannel |

 $\Delta(1750)$ REFERENCES

| | | | | |
|--------|-----|---------------|--------------------------------------|---------------|
| PDG | 06 | JP G33 1 | W.-M. Yao <i>et al.</i> | (PDG Collab.) |
| ARNDT | 04 | PR C69 035213 | R.A. Arndt <i>et al.</i> | (GWU, TRIU) |
| PENNER | 02C | PR C66 055211 | G. Penner, U. Mosel | (GIES) |
| PENNER | 02D | PR C66 055212 | G. Penner, U. Mosel | (GIES) |
| VRANA | 00 | PRPL 328 181 | T.P. Vrana, S.A. Dytman, T.-S.H. Lee | (PITT, ANL) |