

$N(2600) 11/2^-$

$$I(J^P) = \frac{1}{2}(\frac{11}{2}^-) \text{ Status: } ***$$

$N(2600)$ BREIT-WIGNER MASS

| VALUE (MeV) | DOCUMENT ID | TECN | COMMENT |
|--|-------------|------|--|
| 2550 to 2750 (≈ 2600) OUR ESTIMATE | | | |
| 2623 ± 197 | ARNDT | 06 | DPWA $\pi N \rightarrow \pi N, \eta N$ |
| 2577 ± 50 | HOEHLER | 79 | IPWA $\pi N \rightarrow \pi N$ |
| 2700 ± 100 | HENDRY | 78 | MPWA $\pi N \rightarrow \pi N$ |

$N(2600)$ BREIT-WIGNER WIDTH

| VALUE (MeV) | DOCUMENT ID | TECN | COMMENT |
|---|-------------|------|--|
| 500 to 800 (≈ 650) OUR ESTIMATE | | | |
| 1311 ± 996 | ARNDT | 06 | DPWA $\pi N \rightarrow \pi N, \eta N$ |
| 400 ± 100 | HOEHLER | 79 | IPWA $\pi N \rightarrow \pi N$ |
| 900 ± 100 | HENDRY | 78 | MPWA $\pi N \rightarrow \pi N$ |

$N(2600)$ DECAY MODES

| Mode | Fraction (Γ_i/Γ) |
|-----------------------|--------------------------------|
| $\Gamma_1 \quad N\pi$ | 5-10 % |

$N(2600)$ BRANCHING RATIOS

| $\Gamma(N\pi)/\Gamma_{\text{total}}$ | DOCUMENT ID | TECN | COMMENT | Γ_1/Γ |
|--------------------------------------|-------------|------|--|-------------------|
| 5 to 10 OUR ESTIMATE | | | | |
| 5.0 ± 1.8 | ARNDT | 06 | DPWA $\pi N \rightarrow \pi N, \eta N$ | |
| 5 ± 1 | HOEHLER | 79 | IPWA $\pi N \rightarrow \pi N$ | |
| 8 ± 2 | HENDRY | 78 | MPWA $\pi N \rightarrow \pi N$ | |

$N(2600)$ REFERENCES

| | | | | |
|---------|----|-----------------|--------------------------|----------------|
| ARNDT | 06 | PR C74 045205 | R.A. Arndt <i>et al.</i> | (GWU) |
| HOEHLER | 79 | PDAT 12-1 | G. Hohler <i>et al.</i> | (KARLT) IJP |
| Also | | Toronto Conf. 3 | R. Koch | (KARLT) IJP |
| HENDRY | 78 | PRL 41 222 | A.W. Hendry | (IND, LBL) IJP |
| Also | | ANP 136 1 | A.W. Hendry | (IND) |