NODE=B123

# $\Delta(2300)\ 9/2^+$

$I(J^P) = \frac{3}{2}(\frac{9}{2}^+)$ Status: **

OMITTED FROM SUMMARY TABLE

## Δ(2300) POLE POSITION

NODE=B123215

### REAL PART

NODE=B123RE
NODE=B123RE

| *VALUE* (MeV) | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| 2370±80 | CUTKOSKY | 80 | IPWA | $\pi N \to \pi N$ |

### −2×IMAGINARY PART

NODE=B123IM
NODE=B123IM

| *VALUE* (MeV) | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| 420±160 | CUTKOSKY | 80 | IPWA | $\pi N \to \pi N$ |

## Δ(2300) ELASTIC POLE RESIDUE

NODE=B123220

### MODULUS $|r|$

NODE=B123RER
NODE=B123RER

| *VALUE* (MeV) | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| 10±4 | CUTKOSKY | 80 | IPWA | $\pi N \to \pi N$ |

### PHASE $\theta$

NODE=B123IMR
NODE=B123IMR

| *VALUE* (°) | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| −20±30 | CUTKOSKY | 80 | IPWA | $\pi N \to \pi N$ |

## Δ(2300) BREIT-WIGNER MASS

NODE=B123M

NODE=B123M

| *VALUE* (MeV) | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| 2400±125 | CUTKOSKY | 80 | IPWA | $\pi N \to \pi N$ |
| 2217± 80 | HOEHLER | 79 | IPWA | $\pi N \to \pi N$ |

## Δ(2300) BREIT-WIGNER WIDTH

NODE=B123W

NODE=B123W

| *VALUE* (MeV) | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| 425±150 | CUTKOSKY | 80 | IPWA | $\pi N \to \pi N$ |
| 300±100 | HOEHLER | 79 | IPWA | $\pi N \to \pi N$ |

## Δ(2300) DECAY MODES

NODE=B123225;NODE=B123

| | Mode | Fraction ($\Gamma_i/\Gamma$) |
|---|---|---|
| $\Gamma_1$ | $N\pi$ | 1–8 % |

DESIG=1;OUR EST

## Δ(2300) BRANCHING RATIOS

NODE=B123230

### $\Gamma(N\pi)/\Gamma_{total}$ $\Gamma_1/\Gamma$

NODE=B123R1
NODE=B123R1

| *VALUE* (%) | *DOCUMENT ID* | | *TECN* | *COMMENT* |
|---|---|---|---|---|
| 6±2 | CUTKOSKY | 80 | IPWA | $\pi N \to \pi N$ |
| 3±2 | HOEHLER | 79 | IPWA | $\pi N \to \pi N$ |

## Δ(2300) REFERENCES

NODE=B123


| | | | | | |
|---|---|---|---|---|---|
| CUTKOSKY | 80 | Toronto Conf. | 19 | R.E. Cutkosky *et al.* | (CMU, LBL) IJP |
| Also | | PR D20 2839 | | R.E. Cutkosky *et al.* | (CMU, LBL) |
| HOEHLER | 79 | PDAT 12-1 | | G. Hohler *et al.* | (KARLT) IJP |
| Also | | Toronto Conf. | 3 | R. Koch | (KARLT) IJP |


REFID=30064
REFID=40096
REFID=30058
REFID=30859