

$\Delta(2300) 9/2^+$  $I(J^P) = \frac{3}{2}(\frac{9}{2}^+)$  Status: \*\*

OMITTED FROM SUMMARY TABLE

 **$\Delta(2300)$  POLE POSITION****REAL PART**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
2370 ± 80	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

**−2×IMAGINARY PART**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
420 ± 160	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

 **$\Delta(2300)$  ELASTIC POLE RESIDUE****MODULUS  $|r|$** 

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
10 ± 4	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

**PHASE  $\theta$** 

VALUE (°)	DOCUMENT ID	TECN	COMMENT
−20 ± 30	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

 **$\Delta(2300)$  BREIT-WIGNER MASS**

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

 **$\Delta(2300)$  BREIT-WIGNER WIDTH**

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

 **$\Delta(2300)$  DECAY MODES**

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

 **$\Delta(2300)$  BRANCHING RATIOS**

$\Gamma(N\pi)/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	$\Gamma_1/\Gamma$
6 ± 2	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$	
3 ± 2	HOEHLER 79	IPWA	$\pi N \rightarrow \pi N$	

## $\Delta(2300)$ REFERENCES

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

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