

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

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

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 (Γ_i/Γ)
$\Gamma_1 \ N\pi$	1–8 %

$\Delta(2300)$ BRANCHING RATIOS

$\Gamma(N\pi)/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
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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NODE=B123RE

NODE=B123IM
NODE=B123IM

NODE=B123220

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NODE=B123W

NODE=B123W

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DESIG=1;OUR EST

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NODE=B123R1

NODE=B123

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