

$\Delta(2150) \ 1/2^-$

$I(J^P) = \frac{3}{2}(\frac{1}{2}^-)$ Status: *

OMITTED FROM SUMMARY TABLE

$\Delta(2150)$ POLE POSITION

REAL PART

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
2140±80	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

−2×IMAGINARY PART

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
200±80	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

$\Delta(2150)$ ELASTIC POLE RESIDUE

MODULUS $|r|$

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
7±2	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

PHASE θ

VALUE (°)	DOCUMENT ID	TECN	COMMENT
−60±90	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

$\Delta(2150)$ BREIT-WIGNER MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
2150±100	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

$\Delta(2150)$ BREIT-WIGNER WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
200±100	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

$\Delta(2150)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \ N \pi$	6–10 %

$\Delta(2150)$ BRANCHING RATIOS

$\Gamma(N\pi)/\Gamma_{\text{total}}$				Γ_1/Γ
VALUE (%)	DOCUMENT ID	TECN	COMMENT	
8±2	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$	

$\Delta(2150)$ 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)
