

$\Delta(2150) 1/2^-$ $I(J^P) = \frac{3}{2}(\frac{1}{2}^-)$ 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)
$\Gamma_1 \quad N\pi$	6–10 %

 $\Delta(2150)$ BRANCHING RATIOS

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