

NODE=B137

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

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

OMITTED FROM SUMMARY TABLE

$\Delta(2150)$ POLE POSITION

NODE=B137215

REAL PART

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

NODE=B137RE
NODE=B137RE

−2×IMAGINARY PART

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

NODE=B137IM
NODE=B137IM

$\Delta(2150)$ ELASTIC POLE RESIDUE

NODE=B137220

MODULUS $|r|$

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

NODE=B137RER
NODE=B137RER

PHASE θ

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

NODE=B137IMR
NODE=B137IMR

$\Delta(2150)$ BREIT-WIGNER MASS

NODE=B137M

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

NODE=B137M

$\Delta(2150)$ BREIT-WIGNER WIDTH

NODE=B137W

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

NODE=B137W

$\Delta(2150)$ DECAY MODES

NODE=B137225;NODE=B137

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

DESIG=1;OUR EST

$\Delta(2150)$ BRANCHING RATIOS

NODE=B137230

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

Γ_1/Γ

VALUE (%)	DOCUMENT ID	TECN	COMMENT
8±2	CUTKOSKY	80	IPWA $\pi N \rightarrow \pi N$

NODE=B137R1
NODE=B137R1

$\Delta(2150)$ REFERENCES

NODE=B137

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)

REFID=30064
REFID=40096