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

NODE=B137RE
NODE=B137RE

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

−2×IMAGINARY PART

NODE=B137IM
NODE=B137IM

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

$\Delta(2150)$ ELASTIC POLE RESIDUE

NODE=B137220

MODULUS $|r|$

NODE=B137RER
NODE=B137RER

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

PHASE θ

NODE=B137IMR
NODE=B137IMR

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

$\Delta(2150)$ BREIT-WIGNER MASS

NODE=B137M

NODE=B137M

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

$\Delta(2150)$ BREIT-WIGNER WIDTH

NODE=B137W

NODE=B137W

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

$\Delta(2150)$ DECAY MODES

NODE=B137225;NODE=B137

	Mode	Fraction (Γ_i/Γ)	
Γ_1	$N\pi$	6–10 %	DESIG=1;OUR EST

$\Delta(2150)$ BRANCHING RATIOS

NODE=B137230

$\Gamma(N\pi)/\Gamma_{total}$ Γ_1/Γ

NODE=B137R1
NODE=B137R1

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

$\Delta(2150)$ REFERENCES

NODE=B137

CUTKOSKY 80	Toronto Conf. 19	R.E. Cutkosky *et al.*	(CMU, LBL) IJP	REFID=30064
Also	PR D20 2839	R.E. Cutkosky *et al.*	(CMU, LBL)	REFID=40096