NODE=B133

$\Delta(2390)\ 7/2^+$

$I(J^P) = \frac{3}{2}(\frac{7}{2}^+)$ Status: ∗

OMITTED FROM SUMMARY TABLE

Δ(2390) POLE POSITION

NODE=B133215

REAL PART

NODE=B133RE

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
2223± 15±19	[1] SVARC	14	L+P	$\pi N \to \pi N$
2350±100	CUTKOSKY	80	IPWA	$\pi N \to \pi N$

−2×IMAGINARY PART

NODE=B133IM

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
431± 26±7	[1] SVARC	14	L+P	$\pi N \to \pi N$
260±100	CUTKOSKY	80	IPWA	$\pi N \to \pi N$

Δ(2390) ELASTIC POLE RESIDUE

NODE=B133220

MODULUS $|r|$

NODE=B133RER

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
26±2±1	[1] SVARC	14	L+P	$\pi N \to \pi N$
12±6	CUTKOSKY	80	IPWA	$\pi N \to \pi N$

PHASE θ

NODE=B133IMR

VALUE (°)	DOCUMENT ID		TECN	COMMENT
−160± 5±11	[1] SVARC	14	L+P	$\pi N \to \pi N$
− 90±60	CUTKOSKY	80	IPWA	$\pi N \to \pi N$

Δ(2390) BREIT-WIGNER MASS

NODE=B133M

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
2350±100	CUTKOSKY	80	IPWA	$\pi N \to \pi N$
2425± 60	HOEHLER	79	IPWA	$\pi N \to \pi N$

Δ(2390) BREIT-WIGNER WIDTH

NODE=B133W

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
300±100	CUTKOSKY	80	IPWA	$\pi N \to \pi N$
300± 80	HOEHLER	79	IPWA	$\pi N \to \pi N$

Δ(2390) DECAY MODES

NODE=B133225;NODE=B133

	Mode	Fraction (Γ_i/Γ)
Γ_1	$N\pi$	3–12 %

DESIG=1;OUR EST

Δ(2390) BRANCHING RATIOS

NODE=B133230

$\Gamma(N\pi)/\Gamma_{total}$ Γ_1/Γ

NODE=B133R1

VALUE (%)	DOCUMENT ID		TECN	COMMENT
8±4	CUTKOSKY	80	IPWA	$\pi N \to \pi N$
7±4	HOEHLER	79	IPWA	$\pi N \to \pi N$

Δ(2390) FOOTNOTES

NODE=B133

[1] Fit to the amplitudes of HOEHLER 79.

NODE=B133RE;LINKAGE=SV

Δ(2390) REFERENCES

NODE=B133

SVARC	14	PR C89 045205	A. Svarc *et al.*	(RBI Zagreb, UNI Tuzla)	REFID=55775
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
HOEHLER	79	PDAT 12-1	G. Hohler *et al.*	(KARLT) IJP	REFID=30058
Also		Toronto Conf. 3	R. Koch	(KARLT) IJP	REFID=30859