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

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

OMITTED FROM SUMMARY TABLE

Δ(2390) POLE POSITION

REAL PART

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

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

MODULUS $|r|$

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

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

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

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

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

Δ(2390) BRANCHING RATIOS

Γ(Nπ)/Γ$_{total}$ **Γ$_1$/Γ**

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

Δ(2390) FOOTNOTES

[1] Fit to the amplitudes of HOEHLER 79.

Δ(2390) REFERENCES

SVARC	14	PR C89 045205	A. Svarc *et al.*	(RBI Zagreb, UNI Tuzla)
CUTKOSKY	80	Toronto Conf. 19	R.E. Cutkosky *et al.*	(CMU, LBL) IJP
Also		PR D20 2839	R.E. Cutkosky *et al.*	(CMU, LBL)
HOEHLER	79	PDAT 12-1	G. Hohler *et al.*	(KARLT) IJP
Also		Toronto Conf. 3	R. Koch	(KARLT) IJP