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

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

OMITTED FROM SUMMARY TABLE

$\Delta(2390)$ POLE POSITION

REAL PART

VALUE (MeV)		DOCUMENT ID		TECN	COMMENT
$2223\pm 15\pm19$	[1]	SVARC	14	L+P	$\pi N \to \pi N$
2350 ± 100		CUTKOSKY	80	IPWA	$\pi N \to \pi N$

$-2\times$IMAGINARY PART

VALUE (MeV)		DOCUMENT ID		TECN	COMMENT
$431\pm 26\pm7$	[1]	SVARC	14	L+P	$\pi N \to \pi N$
260 ± 100		CUTKOSKY	80	IPWA	$\pi N \to \pi N$

$\Delta(2390)$ ELASTIC POLE RESIDUE

MODULUS $|r|$

VALUE (MeV)		DOCUMENT ID		TECN	COMMENT
$26\pm2\pm1$	[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
$-160\pm 5\pm11$	[1]	SVARC	14	L+P	$\pi N \to \pi N$
$- 90\pm60$		CUTKOSKY	80	IPWA	$\pi N \to \pi N$

$\Delta(2390)$ BREIT-WIGNER MASS

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

$\Delta(2390)$ BREIT-WIGNER WIDTH

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

$\Delta(2390)$ DECAY MODES

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

Δ(2390) BRANCHING RATIOS

Γ(Nπ)/Γ_total   **Γ₁/Γ**

$\Gamma(N\pi)/\Gamma_{total}$ ... Γ_1/Γ

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

[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