

$\Delta(2390) 7/2^+$  $I(J^P) = \frac{3}{2}(\frac{7}{2}^+)$  Status: \*

OMITTED FROM SUMMARY TABLE

 **$\Delta(2390)$  POLE POSITION****REAL PART**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$2223 \pm 15 \pm 19$	<sup>1</sup> SVARC 14	L+P	$\pi N \rightarrow \pi N$
$2350 \pm 100$	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

**-2×IMAGINARY PART**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$431 \pm 26 \pm 7$	<sup>1</sup> SVARC 14	L+P	$\pi N \rightarrow \pi N$
$260 \pm 100$	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

 **$\Delta(2390)$  ELASTIC POLE RESIDUE****MODULUS  $|r|$** 

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$26 \pm 2 \pm 1$	<sup>1</sup> SVARC 14	L+P	$\pi N \rightarrow \pi N$
$12 \pm 6$	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

**PHASE  $\theta$** 

<u>VALUE (°)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$-160 \pm 5 \pm 11$	<sup>1</sup> SVARC 14	L+P	$\pi N \rightarrow \pi N$
$-90 \pm 60$	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

 **$\Delta(2390)$  BREIT-WIGNER MASS**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$2350 \pm 100$	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$
$2425 \pm 60$	HOEHLER 79	IPWA	$\pi N \rightarrow \pi N$

 **$\Delta(2390)$  BREIT-WIGNER WIDTH**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$300 \pm 100$	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$
$300 \pm 80$	HOEHLER 79	IPWA	$\pi N \rightarrow \pi N$

 **$\Delta(2390)$  DECAY MODES**

<u>Mode</u>	<u>Fraction (<math>\Gamma_i/\Gamma</math>)</u>
$\Gamma_1 \quad N\pi$	3–12 %

## $\Delta(2390)$ BRANCHING RATIOS

$\Gamma(N\pi)/\Gamma_{\text{total}}$				$\Gamma_1/\Gamma$
<u>VALUE (%)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
8 ± 4	CUTKOSKY	80	IPWA	$\pi N \rightarrow \pi N$
7 ± 4	HOEHLER	79	IPWA	$\pi N \rightarrow \pi N$

## $\Delta(2390)$ FOOTNOTES

<sup>1</sup> Fit to the amplitudes of HOEHLER 79.

## $\Delta(2390)$ REFERENCES

SVARC	14	PR C89 045205	A. Svarc <i>et al.</i>	(RBI Zagreb, UNI Tuzla)
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)
HOEHLER	79	PDAT 12-1	G. Hohler <i>et al.</i>	(KARLT) IJP
Also		Toronto Conf. 3	R. Koch	(KARLT) IJP