

$\Delta(2400) 9/2^-$ $I(J^P) = \frac{3}{2}(\frac{9}{2}^-)$ Status: **

OMITTED FROM SUMMARY TABLE

 $\Delta(2400)$ POLE POSITION**REAL PART**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1983	ARNDT 06	DPWA	$\pi N \rightarrow \pi N, \eta N$
2260 ± 60	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>
878	ARNDT 06	DPWA	$\pi N \rightarrow \pi N, \eta N$
320 ± 160	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

 $\Delta(2400)$ ELASTIC POLE RESIDUE**MODULUS $|r|$**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
24	ARNDT 06	DPWA	$\pi N \rightarrow \pi N, \eta N$
8 ± 4	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

PHASE θ

<u>VALUE (°)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
-139	ARNDT 06	DPWA	$\pi N \rightarrow \pi N, \eta N$
-25 ± 15	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$

 $\Delta(2400)$ BREIT-WIGNER MASS

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2643 ± 141	ARNDT 06	DPWA	$\pi N \rightarrow \pi N, \eta N$
2300 ± 100	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$
2468 ± 50	HOEHLER 79	IPWA	$\pi N \rightarrow \pi N$

 $\Delta(2400)$ BREIT-WIGNER WIDTH

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
895 ± 432	ARNDT 06	DPWA	$\pi N \rightarrow \pi N, \eta N$
330 ± 100	CUTKOSKY 80	IPWA	$\pi N \rightarrow \pi N$
480 ± 100	HOEHLER 79	IPWA	$\pi N \rightarrow \pi N$

 $\Delta(2400)$ DECAY MODES

<u>Mode</u>	<u>Fraction (Γ_i/Γ)</u>
$\Gamma_1 \quad N\pi$	3-9 %

$\Delta(2400)$ BRANCHING RATIOS

$\Gamma(N\pi)/\Gamma_{\text{total}}$				Γ_1/Γ
VALUE (%)	DOCUMENT ID	TECN	COMMENT	
6.4 ± 2.2	ARNDT	06	DPWA	$\pi N \rightarrow \pi N, \eta N$
5 ± 2	CUTKOSKY	80	IPWA	$\pi N \rightarrow \pi N$
6 ± 3	HOEHLER	79	IPWA	$\pi N \rightarrow \pi N$

 $\Delta(2400)$ REFERENCES

ARNDT	06	PR C74 045205	R.A. Arndt <i>et al.</i>	(GWU)
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