$\Delta(1750) \ 1/2^{+}$ 

 $I(J^P) = \frac{3}{2}(\frac{1}{2}^+)$  Status: \*

## OMITTED FROM SUMMARY TABLE

## $\Delta$ (1750) POLE POSITION

REAL PART						
VALUE (MeV)	DOCUMENT ID		TECN	COMMENT		
1748	ARNDT			$\pi N \rightarrow \pi N$ , $\eta N$		
ullet $ullet$ We do not use the following data for averages, fits, limits, etc. $ullet$ $ullet$						
1714	VRANA	00	DPWA	Multichannel		
-2×IMAGINARY PART						
VALUE (MeV)	DOCUMENT ID					
524	ARNDT			$\pi N \rightarrow \pi N$ , $\eta N$		
• • We do not use the following data for averages, fits, limits, etc. • •						
68	VRANA	00	DPWA	Multichannel		
Δ(1750) ELASTIC POLE RESIDUE						
MODULUS  r						
VALUE (MeV)	DOCUMENT ID		TECN	COMMENT		
48	ARNDT	04	DPWA	$\pi N \rightarrow \pi N, \eta N$		
PHASE $\theta$						
VALUE (°)	DOCUMENT ID					
158	ARNDT	04	DPWA	$\pi N \rightarrow \pi N, \eta N$		
△(1750) BREIT-WIGNER MASS						
VALUE (MeV)	DOCUMENT ID		TECN	COMMENT		
• • • We do not use the following data for averages, fits, limits, etc. • •						
1712± 1	PENNER	<b>02</b> C	DPWA	Multichannel		
$1721 \pm 61$	VRANA	00	DPWA	Multichannel		
△(1750) BREIT-WIGNER WIDTH						

VALUE (MeV)

 $643\pm17$ 

 $70\pm50$ 

• • • We do not use the following data for averages, fits, limits, etc. • • •

**PENNER** 

**VRANA** 

DOCUMENT ID TECN COMMENT

02C DPWA Multichannel

DPWA Multichannel

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## $\Delta$ (1750) DECAY MODES

$\Gamma_1$ $N\pi$ seen $\Gamma_2$ $N\pi\pi$ $\Gamma_3$ $N(1440)\pi$ seen $\Gamma_4$ $\Sigma K$ seen						
$\Gamma_3$ $N(1440)\pi$ seen $\Gamma_4$ $\Sigma K$ seen						
$\Gamma_4$ $\Sigma K$ seen						
A(1750) RDANCHING DATIOS						
$\Delta$ (1750) BRANCHING RATIOS						
$\Gamma(N\pi)/\Gamma_{total}$	$\Gamma_1/\Gamma$					
VALUE (%) DOCUMENT ID TECN COMMENT						
ullet $ullet$ We do not use the following data for averages, fits, limits, etc. $ullet$ $ullet$						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						
$\Gamma(N(1440)\pi)/\Gamma_{\text{total}}$ VALUE (%)  DOCUMENT ID  TECH COMMENT	Γ <sub>3</sub> /Γ					
VALUE (%)       DOCUMENT ID       TECN       COMMENT         • • • We do not use the following data for averages, fits, limits, etc. • • •						
$83\pm1$ VRANA 00 DPWA Multichannel						
	_ ,_					
$\Gamma(\Sigma K)/\Gamma_{\text{total}}$	$\Gamma_4/\Gamma$					
VALUE (%)     DOCUMENT ID     TECN     COMMENT       • • • We do not use the following data for averages, fits, limits, etc. • •						
$0.1\pm0.1$ PENNER 02C DPWA Multichannel						
0.1±0.1						
$\Delta$ (1750) BREIT-WIGNER PHOTON DECAY AMPLITUDES						
Papers on $\gamma$ $N$ amplitudes predating 1981 may be found in our 2006 edition, Journal of Physics <b>G33</b> 1 (2006).						
$\Delta(1750) \rightarrow N\gamma$ , helicity-1/2 amplitude $A_{1/2}$						
$VALUE (GeV^{-1/2})$ DOCUMENT ID TECN COMMENT						
• • We do not use the following data for averages, fits, limits, etc. • •						
0.053 PENNER 02D DPWA Multichannel						
$\Delta$ (1750) REFERENCES						
PDG 06 JP G33 1 WM. Yao et al. (PDG Coll						
	IES)					
PENNER 02D PR C66 055212 G. Penner, U. Mosel (G VRANA 00 PRPL 328 181 T.P. Vrana, S.A. Dytman, TS.H. Lee (PITT, A	IES) NL)					

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