NODE=B064

# $N(1675)\ 5/2^-$

$I(J^P) = \frac{1}{2}(\frac{5}{2}^-)$ Status: ∗∗∗∗

NODE=B064

Older and obsolete values are listed and referenced in the 2014 edition, Chinese Physics **C38** 070001 (2014).

## N(1675) POLE POSITION

NODE=B064215

### REAL PART

NODE=B064RE
NODE=B064RE

| VALUE (MeV) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **1650 to 1660 (≈ 1655) OUR ESTIMATE** | | | | |
| 1662± 5 | SARANTSEV | 25 | DPWA | Multichannel |
| 1652± 2 | ROENCHEN | 22 | DPWA | Multichannel |
| 1654± 2 | [1] SVARC | 14 | L+P | $\pi N \to \pi N$ |
| 1660±10 | CUTKOSKY | 80 | IPWA | $\pi N \to \pi N$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 1646 | HUNT | 19 | DPWA | Multichannel |
| 1646 | ROENCHEN | 15A | DPWA | Multichannel |
| 1655± 4 | SOKHOYAN | 15A | DPWA | Multichannel |
| 1640 | SHKLYAR | 13 | DPWA | Multichannel |
| 1658± 9 | BATINIC | 10 | DPWA | $\pi N \to N\pi$, $N\eta$ |
| 1657 | ARNDT | 06 | DPWA | $\pi N \to \pi N$, $\eta N$ |
| 1674 | VRANA | 00 | DPWA | Multichannel |
| 1656 | HOEHLER | 93 | ARGD | $\pi N \to \pi N$ |

→ UNCHECKED ←

[1] Fit to the amplitudes of HOEHLER 79.

NODE=B064RE;LINKAGE=SV

### −2×IMAGINARY PART

NODE=B064IM
NODE=B064IM

| VALUE (MeV) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **120 to 150 (≈ 135) OUR ESTIMATE** | | | | |
| 130± 8 | SARANTSEV | 25 | DPWA | Multichannel |
| 119± 1 | ROENCHEN | 22 | DPWA | Multichannel |
| 125± 3±1 | [1] SVARC | 14 | L+P | $\pi N \to \pi N$ |
| 140±10 | CUTKOSKY | 80 | IPWA | $\pi N \to \pi N$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 146 | HUNT | 19 | DPWA | Multichannel |
| 125 | ROENCHEN | 15A | DPWA | Multichannel |
| 147± 5 | SOKHOYAN | 15A | DPWA | Multichannel |
| 108 | SHKLYAR | 13 | DPWA | Multichannel |
| 137± 7 | BATINIC | 10 | DPWA | $\pi N \to N\pi$, $N\eta$ |
| 139 | ARNDT | 06 | DPWA | $\pi N \to \pi N$, $\eta N$ |
| 120 | VRANA | 00 | DPWA | Multichannel |
| 126 | HOEHLER | 93 | ARGD | $\pi N \to \pi N$ |

→ UNCHECKED ←

[1] Fit to the amplitudes of HOEHLER 79.

NODE=B064IM;LINKAGE=SV

## N(1675) ELASTIC POLE RESIDUE

NODE=B064220

### MODULUS |r|

NODE=B064RER
NODE=B064RER

| VALUE (MeV) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **22 to 32 (≈ 26) OUR ESTIMATE** | | | | |
| 22±1 | ROENCHEN | 22 | DPWA | Multichannel |
| 28±1 | SOKHOYAN | 15A | DPWA | Multichannel |
| 23±1 | [1] SVARC | 14 | L+P | $\pi N \to \pi N$ |
| 31±5 | CUTKOSKY | 80 | IPWA | $\pi N \to \pi N$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 24 | ROENCHEN | 15A | DPWA | Multichannel |
| 20 | SHKLYAR | 13 | DPWA | Multichannel |
| 28±1 | ANISOVICH | 12A | DPWA | Multichannel |
| 25 | BATINIC | 10 | DPWA | $\pi N \to N\pi$, $N\eta$ |
| 27 | ARNDT | 06 | DPWA | $\pi N \to \pi N$, $\eta N$ |
| 23 | HOEHLER | 93 | ARGD | $\pi N \to \pi N$ |

→ UNCHECKED ←

[1] Fit to the amplitudes of HOEHLER 79.

NODE=B064RER;LINKAGE=SV

## PHASE $\theta$

NODE=B064IMR
NODE=B064IMR

| VALUE (°) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **−27 to −17 (≈ − 22) OUR ESTIMATE** | | | | |
| −17± 1 | ROENCHEN | 22 | DPWA | Multichannel |
| −24± 4 | SOKHOYAN | 15A | DPWA | Multichannel |
| −25± 2 | [1] SVARC | 14 | L+P | $\pi N \rightarrow \pi N$ |
| −30±10 | CUTKOSKY | 80 | IPWA | $\pi N \rightarrow \pi N$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| −22 | ROENCHEN | 15A | DPWA | Multichannel |
| −49 | SHKLYAR | 13 | DPWA | Multichannel |
| −26± 4 | ANISOVICH | 12A | DPWA | Multichannel |
| −16 | BATINIC | 10 | DPWA | $\pi N \rightarrow N\pi, N\eta$ |
| −21 | ARNDT | 06 | DPWA | $\pi N \rightarrow \pi N, \eta N$ |
| −22 | HOEHLER | 93 | ARGD | $\pi N \rightarrow \pi N$ |

→ UNCHECKED ←

[1] Fit to the amplitudes of HOEHLER 79.

NODE=B064IMR;LINKAGE=SV

## N(1675) INELASTIC POLE RESIDUE

NODE=B064240

The "normalized residue" is the residue divided by $\Gamma_{pole}/2$.

NODE=B064240

### Normalized residue in $N\pi \rightarrow N(1675) \rightarrow \Delta\pi$, D-wave

NODE=B064RS1
NODE=B064RS1

| MODULUS | PHASE (°) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| 0.33±0.04 | 90 ± 15 | SOKHOYAN | 15A | DPWA | Multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 0.33±0.05 | 82 ± 10 | ANISOVICH | 12A | DPWA | Multichannel |

### Normalized residue in $N\pi \rightarrow N(1675) \rightarrow N\eta$

NODE=B064A00
NODE=B064A00

| MODULUS | PHASE (°) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| 0.063±0.005 | −39 ± 1 | ROENCHEN | 22 | DPWA | Multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 0.044 | −43 | ROENCHEN | 15A | DPWA | Multichannel |

### Normalized residue in $N\pi \rightarrow N(1675) \rightarrow \Lambda K$

NODE=B064A01
NODE=B064A01

| MODULUS | PHASE (°) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| 0.001±0.001 | 174 ± 80 | ROENCHEN | 22 | DPWA | Multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 0.001 | 100 | ROENCHEN | 15A | DPWA | Multichannel |

### Normalized residue in $N\pi \rightarrow N(1675) \rightarrow \Sigma K$

NODE=B064A02
NODE=B064A02

| MODULUS | PHASE (°) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| 0.024±0.001 | −166 ± 3 | ROENCHEN | 22 | DPWA | Multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 0.031 | −175 | ROENCHEN | 15A | DPWA | Multichannel |

### Normalized residue in $N\pi \rightarrow N(1675) \rightarrow N\sigma$

NODE=B064RS2
NODE=B064RS2

| MODULUS | PHASE (°) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| 0.13±0.03 | 125 ± 20 | SOKHOYAN | 15A | DPWA | Multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 0.15±0.04 | 132 ± 18 | ANISOVICH | 12A | DPWA | Multichannel |

## N(1675) BREIT-WIGNER MASS

NODE=B064M

NODE=B064M

| VALUE (MeV) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **1665 to 1680 (≈ 1675) OUR ESTIMATE** | | | | |
| 1668 ± 4 | SARANTSEV | 25 | DPWA | Multichannel |
| 1669 ± 2 | [1] HUNT | 19 | DPWA | Multichannel |
| 1666 ± 2 | [1] SHKLYAR | 13 | DPWA | Multichannel |
| 1674.1± 0.2 | [1] ARNDT | 06 | DPWA | $\pi N \rightarrow \pi N, \eta N$ |
| 1675 ±10 | CUTKOSKY | 80 | IPWA | $\pi N \rightarrow \pi N$ |
| 1679 ± 8 | HOEHLER | 79 | IPWA | $\pi N \rightarrow \pi N$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 1663 ± 4 | SOKHOYAN | 15A | DPWA | Multichannel |
| 1679 ± 1 | [1] SHRESTHA | 12A | DPWA | Multichannel |
| 1679 ± 9 | BATINIC | 10 | DPWA | $\pi N \rightarrow N\pi, N\eta$ |
| 1685 ± 4 | VRANA | 00 | DPWA | Multichannel |

→ UNCHECKED ←

[1] Statistical error only.

NODE=B064M;LINKAGE=A

## $N(1675)$ BREIT-WIGNER WIDTH

NODE=B064W

NODE=B064W

→ UNCHECKED ←

| VALUE (MeV) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **130 to 160 (≈ 145) OUR ESTIMATE** | | | | |
| 130 ± 8 | SARANTSEV | 25 | DPWA | Multichannel |
| 161 ± 8 | [1] HUNT | 19 | DPWA | Multichannel |
| 148 ± 1 | [1] SHKLYAR | 13 | DPWA | Multichannel |
| 146.5 ± 1.0 | [1] ARNDT | 06 | DPWA | $\pi N \to \pi N$, $\eta N$ |
| 160 ± 20 | CUTKOSKY | 80 | IPWA | $\pi N \to \pi N$ |
| 120 ± 15 | HOEHLER | 79 | IPWA | $\pi N \to \pi N$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 146 ± 6 | SOKHOYAN | 15A | DPWA | Multichannel |
| 145 ± 4 | [1] SHRESTHA | 12A | DPWA | Multichannel |
| 152 ± 8 | BATINIC | 10 | DPWA | $\pi N \to N\pi$, $N\eta$ |
| 131 ± 10 | VRANA | 00 | DPWA | Multichannel |

[1] Statistical error only.

NODE=B064W;LINKAGE=A

## $N(1675)$ DECAY MODES

NODE=B064225;NODE=B064

The following branching fractions are our estimates, not fits or averages.

NODE=B064

| | Mode | Fraction ($\Gamma_i/\Gamma$) | |
|---|---|---|---|
| $\Gamma_1$ | $N\pi$ | 38–42 % | DESIG=1;OUR EST |
| $\Gamma_2$ | $N\eta$ | < 1 % | DESIG=2;OUR EST |
| $\Gamma_3$ | $\Lambda K$ | <0.04 % | DESIG=186 |
| $\Gamma_4$ | $N\pi\pi$ | 25–45 % | DESIG=5;OUR EST |
| $\Gamma_5$ | $\Delta(1232)\pi$ | (19±4) % | DESIG=190 |
| $\Gamma_6$ | $\Delta(1232)\pi$, $D$-wave | 23–37 % | DESIG=6;OUR EST |
| $\Gamma_7$ | $N\rho$ | 0.1–0.9 % | DESIG=187;OUR EST |
| $\Gamma_8$ | $N\rho$, $S$=1/2 | <0.2 % | DESIG=188 |
| $\Gamma_9$ | $N\rho$, $S$=3/2, $D$-wave | 0.1–0.7 % | DESIG=189 |
| $\Gamma_{10}$ | $N\sigma$ | 3–7 % | DESIG=11;OUR EST |
| $\Gamma_{11}$ | $p\gamma$ | 0–0.02 % | DESIG=184;OUR EST |
| $\Gamma_{12}$ | $p\gamma$, helicity=1/2 | 0–0.01 % | DESIG=13;OUR EST |
| $\Gamma_{13}$ | $p\gamma$, helicity=3/2 | 0–0.01 % | DESIG=14;OUR EST |
| $\Gamma_{14}$ | $n\gamma$ | 0–0.15 % | DESIG=185;OUR EST |
| $\Gamma_{15}$ | $n\gamma$, helicity=1/2 | 0–0.05 % | DESIG=15;OUR EST |
| $\Gamma_{16}$ | $n\gamma$, helicity=3/2 | 0–0.10 % | DESIG=16;OUR EST |

## $N(1675)$ BRANCHING RATIOS

NODE=B064230

### $\Gamma(N\pi)/\Gamma_{total}$ $\Gamma_1/\Gamma$

NODE=B064R1
NODE=B064R1

→ UNCHECKED ←

| VALUE (%) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **38 to 42 (≈ 40) OUR ESTIMATE** | | | | |
| 40 ± 1 | SEIFEN | 25 | DPWA | Multichannel |
| 33 ± 1 | [1] HUNT | 19 | DPWA | Multichannel |
| 41 ± 1 | [1] SHKLYAR | 13 | DPWA | Multichannel |
| 39.3 ± 0.1 | [1] ARNDT | 06 | DPWA | $\pi N \to \pi N$, $\eta N$ |
| 38 ± 5 | CUTKOSKY | 80 | IPWA | $\pi N \to \pi N$ |
| 38 ± 3 | HOEHLER | 79 | IPWA | $\pi N \to \pi N$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 41 ± 2 | SOKHOYAN | 15A | DPWA | Multichannel |
| 38.6 ± 0.6 | [1] SHRESTHA | 12A | DPWA | Multichannel |
| 35 ± 4 | BATINIC | 10 | DPWA | $\pi N \to N\pi$, $N\eta$ |
| 35 ± 1 | VRANA | 00 | DPWA | Multichannel |

[1] Statistical error only.

NODE=B064R1;LINKAGE=A

### $\Gamma(N\eta)/\Gamma_{total}$ — $\Gamma_2/\Gamma$

NODE=B064R10
NODE=B064R10

| VALUE (%) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| 0.5±0.5 | MUELLER | 20 | DPWA | Multichannel |
| 2.0±0.3 | [1] HUNT | 19 | DPWA | Multichannel |
| <1 | SHKLYAR | 13 | DPWA | Multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| <1 | [1] SHRESTHA | 12A | DPWA | Multichannel |
| 0.1±0.1 | BATINIC | 10 | DPWA | $\pi N \to N\pi$, $N\eta$ |
| 3 ±3 | THOMA | 08 | DPWA | Multichannel |
| 0 ±1 | VRANA | 00 | DPWA | Multichannel |

[1] Statistical error only.

NODE=B064R10;LINKAGE=B

### $\Gamma(\Lambda K)/\Gamma_{total}$ — $\Gamma_3/\Gamma$

NODE=B064R00
NODE=B064R00
→ UNCHECKED ←

| VALUE (%) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **<0.04 % OUR ESTIMATE** | | | | |
| <0.04 | [1] HUNT | 19 | DPWA | Multichannel |

[1] Statistical error only.

NODE=B064R00;LINKAGE=A

### $\Gamma(\Delta(1232)\pi)/\Gamma_{total}$ — $\Gamma_5/\Gamma$

NODE=B064R03
NODE=B064R03

| VALUE (%) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **19±4** | SARANTSEV | 25 | DPWA | Multichannel |

### $\Gamma(\Delta(1232)\pi, D\text{-wave})/\Gamma_{total}$ — $\Gamma_6/\Gamma$

NODE=B064R13
NODE=B064R13

| VALUE (%) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| 19 ±4 | SARANTSEV | 25 | DPWA | Multichannel |
| 19 ±3 | SEIFEN | 25 | DPWA | Multichannel |
| 58.3±0.2 | [1] HUNT | 19 | DPWA | Multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 30 ±7 | SOKHOYAN | 15A | DPWA | Multichannel |
| 46 ±1 | [1] SHRESTHA | 12A | DPWA | Multichannel |
| 63 ±2 | VRANA | 00 | DPWA | Multichannel |

[1] Statistical error only.

NODE=B064R13;LINKAGE=A

### $\Gamma(N\rho)/\Gamma_{total}$ — $\Gamma_7/\Gamma$

NODE=B064R04
NODE=B064R04

| VALUE (%) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **30±9** | SARANTSEV | 25 | DPWA | Multichannel |

### $\Gamma(N\rho, S{=}1/2)/\Gamma_{total}$ — $\Gamma_8/\Gamma$

NODE=B064R01
NODE=B064R01
→ UNCHECKED ←

| VALUE (%) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **<0.2 % OUR ESTIMATE** | | | | |
| 20 ±7 | SARANTSEV | 25 | DPWA | Multichannel |
| < 0.2 | [1] HUNT | 19 | DPWA | Multichannel |

[1] Statistical error only.

NODE=B064R01;LINKAGE=A

### $\Gamma(N\rho, S{=}3/2, D\text{-wave})/\Gamma_{total}$ — $\Gamma_9/\Gamma$

NODE=B064R02
NODE=B064R02
→ UNCHECKED ←

| VALUE (%) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.1–0.7 % OUR ESTIMATE** | | | | |
| 10 ±5 | SARANTSEV | 25 | DPWA | Multichannel |
| 0.4±0.3 | [1] HUNT | 19 | DPWA | Multichannel |

[1] Statistical error only.

NODE=B064R02;LINKAGE=A

### $\Gamma(N\sigma)/\Gamma_{total}$ — $\Gamma_{10}/\Gamma$

NODE=B064R14
NODE=B064R14

| VALUE (%) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| 5±3 | SARANTSEV | 25 | DPWA | Multichannel |
| 1±1 | SEIFEN | 25 | DPWA | Multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 5±2 | SOKHOYAN | 15A | DPWA | Multichannel |

## $N(1675)$ PHOTON DECAY AMPLITUDES AT THE POLE

NODE=B064260

### $N(1675) \to p\gamma$, helicity-1/2 amplitude $A_{1/2}$

NODE=B064PA1
NODE=B064PA1

| MODULUS (GeV$^{-1/2}$) | PHASE (°) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| 0.021±0.004 | 30 ± 15 | SARANTSEV | 25 | DPWA | Multichannel |
| 0.025±0.002 | −1.2 ± 3.9 | ROENCHEN | 22 | DPWA | Multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 0.032 | 36 | ROENCHEN | 15A | DPWA | Multichannel |
| 0.022±0.003 | −12 ± 7 | SOKHOYAN | 15A | DPWA | Multichannel |

### $N(1675) \rightarrow p\gamma$, helicity-3/2 amplitude $A_{3/2}$

NODE=B064PA2
NODE=B064PA2

| MODULUS ($GeV^{-1/2}$) | PHASE (°) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| 0.030±0.004 | −25 ± 10 | SARANTSEV | 25 | DPWA | Multichannel |
| 0.051±0.002 | −1.0 ± 1.9 | ROENCHEN | 22 | DPWA | Multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 0.051 | −9.3 | ROENCHEN | 15A | DPWA | Multichannel |
| 0.028±0.006 | −17 ± 6 | SOKHOYAN | 15A | DPWA | Multichannel |

### $N(1675) \rightarrow n\gamma$, helicity-1/2 amplitude $A_{1/2}$

NODE=B064PA3
NODE=B064PA3

| MODULUS ($GeV^{-1/2}$) | PHASE (°) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| −0.053±0.004 | −3 ± 5 | ANISOVICH | 17E | DPWA | Multichannel |

### $N(1675) \rightarrow n\gamma$, helicity-3/2 amplitude $A_{3/2}$

NODE=B064PA4
NODE=B064PA4

| MODULUS ($GeV^{-1/2}$) | PHASE (°) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|---|
| −0.073±0.005 | −12 ± 5 | ANISOVICH | 17E | DPWA | Multichannel |

## N(1675) BREIT-WIGNER PHOTON DECAY AMPLITUDES

NODE=B064235

### $N(1675) \rightarrow p\gamma$, helicity-1/2 amplitude $A_{1/2}$

NODE=B064A1
NODE=B064A1

| VALUE ($GeV^{-1/2}$) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.010 to 0.025 (≈ 0.018) OUR ESTIMATE** | | | | |
| 0.022±0.004 | SARANTSEV | 25 | DPWA | Multichannel |
| 0.026±0.002 | [1] HUNT | 19 | DPWA | Multichannel |
| 0.009±0.001 | [1] SHKLYAR | 13 | DPWA | Multichannel |
| 0.013±0.001 | [1] WORKMAN | 12A | DPWA | $\gamma N \rightarrow N\pi$ |
| 0.018±0.002 | [1] DUGGER | 07 | DPWA | $\gamma N \rightarrow \pi N$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 0.022±0.003 | SOKHOYAN | 15A | DPWA | Multichannel |
| 0.011±0.001 | [1] SHRESTHA | 12A | DPWA | Multichannel |
| 0.015 | DRECHSEL | 07 | DPWA | $\gamma N \rightarrow \pi N$ |

→ UNCHECKED ←

[1] Statistical error only.

NODE=B064A1;LINKAGE=A

### $N(1675) \rightarrow p\gamma$, helicity-3/2 amplitude $A_{3/2}$

NODE=B064A2
NODE=B064A2

| VALUE ($GeV^{-1/2}$) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **0.015 to 0.030 (≈ 0.022) OUR ESTIMATE** | | | | |
| 0.030±0.005 | SARANTSEV | 25 | DPWA | Multichannel |
| 0.005±0.002 | [1] HUNT | 19 | DPWA | Multichannel |
| 0.021±0.001 | [1] SHKLYAR | 13 | DPWA | Multichannel |
| 0.016±0.001 | [1] WORKMAN | 12A | DPWA | $\gamma N \rightarrow N\pi$ |
| 0.021±0.001 | [1] DUGGER | 07 | DPWA | $\gamma N \rightarrow \pi N$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| 0.027±0.006 | SOKHOYAN | 15A | DPWA | Multichannel |
| 0.020±0.001 | [1] SHRESTHA | 12A | DPWA | Multichannel |
| 0.022 | DRECHSEL | 07 | DPWA | $\gamma N \rightarrow \pi N$ |

→ UNCHECKED ←

[1] Statistical error only.

NODE=B064A2;LINKAGE=A

### $N(1675) \rightarrow n\gamma$, helicity-1/2 amplitude $A_{1/2}$

NODE=B064A3
NODE=B064A3

| VALUE ($GeV^{-1/2}$) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **−0.065 to −0.055 (≈ −0.060) OUR ESTIMATE** | | | | |
| −0.069±0.005 | [1] HUNT | 19 | DPWA | Multichannel |
| −0.053±0.004 | ANISOVICH | 17E | DPWA | Multichannel |
| −0.058±0.002 | [1] CHEN | 12A | DPWA | $\gamma N \rightarrow \pi N$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | |
| −0.060±0.007 | ANISOVICH | 13B | DPWA | Multichannel |
| −0.040±0.004 | [1] SHRESTHA | 12A | DPWA | Multichannel |
| −0.062 | DRECHSEL | 07 | DPWA | $\gamma N \rightarrow \pi N$ |

→ UNCHECKED ←

[1] Statistical error only.

NODE=B064A3;LINKAGE=A

### $N(1675) \rightarrow n\gamma$, helicity-3/2 amplitude $A_{3/2}$

NODE=B064A4
NODE=B064A4

| VALUE ($GeV^{-1/2}$) | DOCUMENT ID | | TECN | COMMENT |
|---|---|---|---|---|
| **−0.095 to −0.075 (≈ −0.085) OUR ESTIMATE** | | | | |
| −0.031±0.005 | [1] HUNT | 19 | DPWA | Multichannel |
| −0.072±0.005 | ANISOVICH | 17E | DPWA | Multichannel |
| −0.080±0.005 | [1] CHEN | 12A | DPWA | $\gamma N \rightarrow \pi N$ |

→ UNCHECKED ←

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

| | | | | |
|---|---|---|---|---|
| $-0.088\pm0.010$ | ANISOVICH | 13B | DPWA | Multichannel |
| $-0.068\pm0.004$ | [1] SHRESTHA | 12A | DPWA | Multichannel |
| $-0.084$ | DRECHSEL | 07 | DPWA | $\gamma N \to \pi N$ |

[1] Statistical error only.

NODE=B064A4;LINKAGE=A

## *N*(1675) REFERENCES

NODE=B064

For early references, see Physics Letters **111B** 1 (1982).

NODE=B064


| | | | | | |
|---|---|---|---|---|---|
| SARANTSEV | 25 | PR C112 015202 | A.V. Sarantsev *et al.* | (Bonn-Gatchina Collab.) | REFID=63294 |
| SEIFEN | 25 | EPJ A61 173 | T. Seifen *et al.* | (CBELSA/TAPS Collab.) | REFID=63593 |
| ROENCHEN | 22 | EPJ A58 229 | D. Roenchen *et al.* | (JULI, GWU, BONN+) | REFID=61999 |
| MUELLER | 20 | PL B803 135323 | J. Mueller *et al.* | (CBELSA/TAPS Collab.) | REFID=60391 |
| HUNT | 19 | PR C99 055205 | B.C. Hunt, D.M. Manley | | REFID=59985 |
| ANISOVICH | 17E | PR C96 055202 | A.V. Anisovich *et al.* | (BONN, PNPI, JLAB+) | REFID=62311 |
| ROENCHEN | 15A | EPJ A51 70 | D. Roenchen *et al.* | | REFID=58183 |
| SOKHOYAN | 15A | EPJ A51 95 | V. Sokhoyan *et al.* | (CBELSA/TAPS Collab.) | REFID=56757 |
| PDG | 14 | CP C38 070001 | K. Olive *et al.* | (PDG Collab.) | REFID=55687 |
| SVARC | 14 | PR C89 045205 | A. Svarc *et al.* | (RBI Zagreb, UNI Tuzla) | REFID=55775 |
| ANISOVICH | 13B | EPJ A49 67 | A.V. Anisovich *et al.* | | REFID=56147 |
| SHKLYAR | 13 | PR C87 015201 | V. Shklyar, H. Lenske, U. Mosel | (GIES) | REFID=55104 |
| ANISOVICH | 12A | EPJ A48 15 | A.V. Anisovich *et al.* | (BONN, PNPI) | REFID=54041 |
| CHEN | 12A | PR C86 015206 | W. Chen *et al.* | (DUKE, GWU, MSST, ITEP+) | REFID=54337 |
| SHRESTHA | 12A | PR C86 055203 | M. Shrestha, D.M. Manley | (KSU) | REFID=54862 |
| WORKMAN | 12A | PR C86 015202 | R. Workman *et al.* | (GWU) | REFID=54335 |
| BATINIC | 10 | PR C82 038203 | M. Batinic *et al.* | (ZAGR) | REFID=53552 |
| THOMA | 08 | PL B659 87 | U. Thoma *et al.* | (CB-ELSA Collab.) | REFID=52087 |
| DRECHSEL | 07 | EPJ A34 69 | D. Drechsel, S.S. Kamalov, L. Tiator | (MAINZ, JINR) | REFID=52105 |
| DUGGER | 07 | PR C76 025211 | M. Dugger *et al.* | (JLab CLAS Collab.) | REFID=52039 |
| ARNDT | 06 | PR C74 045205 | R.A. Arndt *et al.* | (GWU) | REFID=51535 |
| VRANA | 00 | PRPL 328 181 | T.P. Vrana, S.A. Dytman, T.-S.H. Lee | (PITT, ANL) | REFID=47593 |
| HOEHLER | 93 | $\pi N$ Newsletter 9 1 | G. Hohler | (KARL) | REFID=43821 |
| CUTKOSKY | 80 | Toronto Conf. 19 | R.E. Cutkosky *et al.* | (CMU, LBL) IJP | REFID=30064 |
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