

$\Lambda(1820) \ 5/2^+$

$I(J^P) = 0(\frac{5}{2}^+)$  Status: \*\*\*\*

This resonance is the cornerstone for all partial-wave analyses in this region. Most of the results published before 1973 are now obsolete and have been omitted. They may be found in our 1982 edition Physics Letters **111B** 1 (1982).

$\Lambda(1820)$  POLE POSITION

REAL PART

| VALUE (MeV)                                                                   | DOCUMENT ID         | TECN | COMMENT                           |
|-------------------------------------------------------------------------------|---------------------|------|-----------------------------------|
| <b>1812 to 1825 (<math>\approx 1818</math>) OUR ESTIMATE</b>                  |                     |      |                                   |
| $1813 \pm 3$                                                                  | SARANTSEV           | 19   | DPWA $\overline{K}N$ multichannel |
| $1824^{+2}_{-1}$                                                              | <sup>1</sup> KAMANO | 15   | DPWA $\overline{K}N$ multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • |                     |      |                                   |
| 1814                                                                          | ZHANG               | 13A  | DPWA $\overline{K}N$ multichannel |
| <sup>1</sup> From the preferred solution A in KAMANO 15.                      |                     |      |                                   |

–2×IMAGINARY PART

| VALUE (MeV)                                                                   | DOCUMENT ID         | TECN | COMMENT                           |
|-------------------------------------------------------------------------------|---------------------|------|-----------------------------------|
| <b>75 to 80 (<math>\approx 77</math>) OUR ESTIMATE</b>                        |                     |      |                                   |
| $78 \pm 7$                                                                    | SARANTSEV           | 19   | DPWA $\overline{K}N$ multichannel |
| $77 \pm 2$                                                                    | <sup>1</sup> KAMANO | 15   | DPWA $\overline{K}N$ multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • |                     |      |                                   |
| 85                                                                            | ZHANG               | 13A  | DPWA $\overline{K}N$ multichannel |
| <sup>1</sup> From the preferred solution A in KAMANO 15.                      |                     |      |                                   |

$\Lambda(1820)$  POLE RESIDUES

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

Normalized residue in  $N\overline{K} \rightarrow \Lambda(1820) \rightarrow N\overline{K}$

| MODULUS                                                                       | PHASE (°)                     | DOCUMENT ID         | TECN | COMMENT                           |
|-------------------------------------------------------------------------------|-------------------------------|---------------------|------|-----------------------------------|
| <b>0.60 <math>\pm</math> 0.12</b>                                             | <b>–22 <math>\pm</math> 5</b> | SARANTSEV           | 19   | DPWA $\overline{K}N$ multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • |                               |                     |      |                                   |
| 0.558                                                                         | –13                           | <sup>1</sup> KAMANO | 15   | DPWA $\overline{K}N$ multichannel |
| <sup>1</sup> From the preferred solution A in KAMANO 15.                      |                               |                     |      |                                   |

Normalized residue in  $N\overline{K} \rightarrow \Lambda(1820) \rightarrow \Sigma\pi$

| MODULUS                                                                       | PHASE (°)                     | DOCUMENT ID         | TECN | COMMENT                           |
|-------------------------------------------------------------------------------|-------------------------------|---------------------|------|-----------------------------------|
| <b>0.34 <math>\pm</math> 0.07</b>                                             | <b>174 <math>\pm</math> 5</b> | SARANTSEV           | 19   | DPWA $\overline{K}N$ multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • |                               |                     |      |                                   |
| 0.357                                                                         | 168                           | <sup>1</sup> KAMANO | 15   | DPWA $\overline{K}N$ multichannel |
| <sup>1</sup> From the preferred solution A in KAMANO 15.                      |                               |                     |      |                                   |

**Normalized residue in  $N\bar{K} \rightarrow \Lambda(1820) \rightarrow \Lambda\eta$** 

| MODULUS | PHASE ( $^\circ$ ) | DOCUMENT ID | TECN | COMMENT |
|---------|--------------------|-------------|------|---------|
|---------|--------------------|-------------|------|---------|

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

0.0184       $-3$       <sup>1</sup> KAMANO      15      DPWA       $\bar{K}N$  multichannel<sup>1</sup>From the preferred solution A in KAMANO 15.**Normalized residue in  $N\bar{K} \rightarrow \Lambda(1820) \rightarrow \Xi K$** 

| MODULUS | PHASE ( $^\circ$ ) | DOCUMENT ID | TECN | COMMENT |
|---------|--------------------|-------------|------|---------|
|---------|--------------------|-------------|------|---------|

 $\sim 0$ SARANTSEV      19      DPWA       $\bar{K}N$  multichannel

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

0.00111      70      <sup>1</sup> KAMANO      15      DPWA       $\bar{K}N$  multichannel<sup>1</sup>From the preferred solution A in KAMANO 15.**Normalized residue in  $N\bar{K} \rightarrow \Lambda(1820) \rightarrow \Sigma(1385)\pi$ ,  $P$ -wave**

| MODULUS | PHASE ( $^\circ$ ) | DOCUMENT ID | TECN | COMMENT |
|---------|--------------------|-------------|------|---------|
|---------|--------------------|-------------|------|---------|

**0.07  $\pm$  0.02       $-60 \pm 50$**       SARANTSEV      19      DPWA       $\bar{K}N$  multichannel

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

0.340      161      <sup>1</sup> KAMANO      15      DPWA       $\bar{K}N$  multichannel<sup>1</sup>From the preferred solution A in KAMANO 15.**Normalized residue in  $N\bar{K} \rightarrow \Lambda(1820) \rightarrow \Sigma(1385)\pi$ ,  $F$ -wave**

| MODULUS | PHASE ( $^\circ$ ) | DOCUMENT ID | TECN | COMMENT |
|---------|--------------------|-------------|------|---------|
|---------|--------------------|-------------|------|---------|

**0.11  $\pm$  0.04       $5 \pm 45$**       SARANTSEV      19      DPWA       $\bar{K}N$  multichannel

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

0.201      151      <sup>1</sup> KAMANO      15      DPWA       $\bar{K}N$  multichannel<sup>1</sup>From the preferred solution A in KAMANO 15.**Normalized residue in  $N\bar{K} \rightarrow \Lambda(1820) \rightarrow N\bar{K}^*(892)$ ,  $S=1/2$ ,  $F$ -wave**

| MODULUS | PHASE ( $^\circ$ ) | DOCUMENT ID | TECN | COMMENT |
|---------|--------------------|-------------|------|---------|
|---------|--------------------|-------------|------|---------|

**0.02       $\pm$  0.02**      SARANTSEV      19      DPWA       $\bar{K}N$  multichannel

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

0.00750      41      <sup>1</sup> KAMANO      15      DPWA       $\bar{K}N$  multichannel<sup>1</sup>From the preferred solution A in KAMANO 15.**Normalized residue in  $N\bar{K} \rightarrow \Lambda(1820) \rightarrow N\bar{K}^*(892)$ ,  $S=3/2$ ,  $P$ -wave**

| MODULUS | PHASE ( $^\circ$ ) | DOCUMENT ID | TECN | COMMENT |
|---------|--------------------|-------------|------|---------|
|---------|--------------------|-------------|------|---------|

**0.35  $\pm$  0.15       $-30 \pm 45$**       SARANTSEV      19      DPWA       $\bar{K}N$  multichannel

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

0.171       $-139$       <sup>1</sup> KAMANO      15      DPWA       $\bar{K}N$  multichannel<sup>1</sup>From the preferred solution A in KAMANO 15.

Normalized residue in  $N\bar{K} \rightarrow \Lambda(1820) \rightarrow N\bar{K}^*(892)$ ,  $S=3/2$ ,  $F$ -wave

| MODULUS                                                                       | PHASE (°) | DOCUMENT ID            | TECN | COMMENT                 |
|-------------------------------------------------------------------------------|-----------|------------------------|------|-------------------------|
| 0.02 ±0.02                                                                    |           | SARANTSEV 19           | DPWA | $\bar{K}N$ multichannel |
| • • • We do not use the following data for averages, fits, limits, etc. • • • |           |                        |      |                         |
| 0.000517                                                                      | 161       | <sup>1</sup> KAMANO 15 | DPWA | $\bar{K}N$ multichannel |
| <sup>1</sup> From the preferred solution A in KAMANO 15.                      |           |                        |      |                         |

$\Lambda(1820)$  MASS

| VALUE (MeV)                                                                                 | DOCUMENT ID            | TECN | COMMENT                              |
|---------------------------------------------------------------------------------------------|------------------------|------|--------------------------------------|
| <b>1815 to 1825 (<math>\approx 1820</math>) OUR ESTIMATE</b>                                |                        |      |                                      |
| 1822 ±4                                                                                     | SARANTSEV 19           | DPWA | $\bar{K}N$ multichannel              |
| 1823.5±0.8                                                                                  | ZHANG 13A              | DPWA | $\bar{K}N$ multichannel              |
| 1823 ±3                                                                                     | GOPAL 80               | DPWA | $\bar{K}N \rightarrow \bar{K}N$      |
| 1819 ±2                                                                                     | ALSTON-...             | 78   | DPWA $\bar{K}N \rightarrow \bar{K}N$ |
| 1821 ±2                                                                                     | KANE 74                | DPWA | $K^-p \rightarrow \Sigma\pi$         |
| • • • We do not use the following data for averages, fits, limits, etc. • • •               |                        |      |                                      |
| 1830                                                                                        | DECLAIS 77             | DPWA | $\bar{K}N \rightarrow \bar{K}N$      |
| 1822 ±2                                                                                     | GOPAL 77               | DPWA | $\bar{K}N$ multichannel              |
| 1817 or 1819                                                                                | <sup>1</sup> MARTIN 77 | DPWA | $\bar{K}N$ multichannel              |
| <sup>1</sup> The two MARTIN 77 values are from a T-matrix pole and from a Breit-Wigner fit. |                        |      |                                      |

$\Lambda(1820)$  WIDTH

| VALUE (MeV)                                                                                 | DOCUMENT ID            | TECN | COMMENT                              |
|---------------------------------------------------------------------------------------------|------------------------|------|--------------------------------------|
| <b>70 to 90 (<math>\approx 80</math>) OUR ESTIMATE</b>                                      |                        |      |                                      |
| 80±8                                                                                        | SARANTSEV 19           | DPWA | $\bar{K}N$ multichannel              |
| 89±2                                                                                        | ZHANG 13A              | DPWA | $\bar{K}N$ multichannel              |
| 77±5                                                                                        | GOPAL 80               | DPWA | $\bar{K}N \rightarrow \bar{K}N$      |
| 72±5                                                                                        | ALSTON-...             | 78   | DPWA $\bar{K}N \rightarrow \bar{K}N$ |
| 87±3                                                                                        | KANE 74                | DPWA | $K^-p \rightarrow \Sigma\pi$         |
| • • • We do not use the following data for averages, fits, limits, etc. • • •               |                        |      |                                      |
| 82                                                                                          | DECLAIS 77             | DPWA | $\bar{K}N \rightarrow \bar{K}N$      |
| 81±5                                                                                        | GOPAL 77               | DPWA | $\bar{K}N$ multichannel              |
| 76 or 76                                                                                    | <sup>1</sup> MARTIN 77 | DPWA | $\bar{K}N$ multichannel              |
| <sup>1</sup> The two MARTIN 77 values are from a T-matrix pole and from a Breit-Wigner fit. |                        |      |                                      |

$\Lambda(1820)$  DECAY MODES

| Mode                                     | Fraction ( $\Gamma_i/\Gamma$ ) |
|------------------------------------------|--------------------------------|
| $\Gamma_1$ $N\bar{K}$                    | 55–65 %                        |
| $\Gamma_2$ $\Sigma\pi$                   | 8–14 %                         |
| $\Gamma_3$ $\Sigma(1385)\pi$             | 5–10 %                         |
| $\Gamma_4$ $\Sigma(1385)\pi$ , $P$ -wave |                                |
| $\Gamma_5$ $\Sigma(1385)\pi$ , $F$ -wave | (2.0±1.0) %                    |

|               |                                         |                  |
|---------------|-----------------------------------------|------------------|
| $\Gamma_6$    | $\Lambda\eta$                           |                  |
| $\Gamma_7$    | $\Xi K$                                 |                  |
| $\Gamma_8$    | $\Sigma\pi\pi$                          |                  |
| $\Gamma_9$    | $N\bar{K}^*(892), S=1/2, F\text{-wave}$ |                  |
| $\Gamma_{10}$ | $N\bar{K}^*(892), S=3/2, P\text{-wave}$ | $(3.0\pm 1.0)\%$ |
| $\Gamma_{11}$ | $N\bar{K}^*(892), S=3/2, F\text{-wave}$ |                  |

**$\Lambda(1820)$  BRANCHING RATIOS**

Errors quoted do not include uncertainties in the parametrizations used in the partial-wave analyses and are thus too small. See also “Sign conventions for resonance couplings” in the Note on  $\Lambda$  and  $\Sigma$  Resonances.

| $\Gamma(N\bar{K})/\Gamma_{\text{total}}$                                                    |                     |      |                                      | $\Gamma_1/\Gamma$ |
|---------------------------------------------------------------------------------------------|---------------------|------|--------------------------------------|-------------------|
| VALUE                                                                                       | DOCUMENT ID         | TECN | COMMENT                              |                   |
| <b>0.55 to 0.65 OUR ESTIMATE</b>                                                            |                     |      |                                      |                   |
| 0.58 $\pm 0.12$                                                                             | SARANTSEV           | 19   | DPWA $\bar{K}N$ multichannel         |                   |
| 0.54 $\pm 0.01$                                                                             | ZHANG               | 13A  | DPWA $\bar{K}N$ multichannel         |                   |
| 0.58 $\pm 0.02$                                                                             | GOPAL               | 80   | DPWA $\bar{K}N \rightarrow \bar{K}N$ |                   |
| 0.60 $\pm 0.03$                                                                             | ALSTON-...          | 78   | DPWA $\bar{K}N \rightarrow \bar{K}N$ |                   |
| • • • We do not use the following data for averages, fits, limits, etc. • • •               |                     |      |                                      |                   |
| 0.547                                                                                       | <sup>1</sup> KAMANO | 15   | DPWA $\bar{K}N$ multichannel         |                   |
| 0.51                                                                                        | DECLAIS             | 77   | DPWA $\bar{K}N \rightarrow \bar{K}N$ |                   |
| 0.57 $\pm 0.02$                                                                             | GOPAL               | 77   | DPWA See GOPAL 80                    |                   |
| 0.59 or 0.58                                                                                | <sup>2</sup> MARTIN | 77   | DPWA $\bar{K}N$ multichannel         |                   |
| <sup>1</sup> From the preferred solution A in KAMANO 15.                                    |                     |      |                                      |                   |
| <sup>2</sup> The two MARTIN 77 values are from a T-matrix pole and from a Breit-Wigner fit. |                     |      |                                      |                   |

| $\Gamma(\Sigma\pi)/\Gamma_{\text{total}}$                                     |                     |      |                              | $\Gamma_2/\Gamma$ |
|-------------------------------------------------------------------------------|---------------------|------|------------------------------|-------------------|
| VALUE                                                                         | DOCUMENT ID         | TECN | COMMENT                      |                   |
| <b>0.19 <math>\pm 0.04</math></b>                                             | SARANTSEV           | 19   | DPWA $\bar{K}N$ multichannel |                   |
| • • • We do not use the following data for averages, fits, limits, etc. • • • |                     |      |                              |                   |
| 0.218                                                                         | <sup>1</sup> KAMANO | 15   | DPWA $\bar{K}N$ multichannel |                   |
| <sup>1</sup> From the preferred solution A in KAMANO 15.                      |                     |      |                              |                   |

| $\Gamma(\Sigma(1385)\pi, P\text{-wave})/\Gamma_{\text{total}}$                |                     |      |                              | $\Gamma_4/\Gamma$ |
|-------------------------------------------------------------------------------|---------------------|------|------------------------------|-------------------|
| VALUE                                                                         | DOCUMENT ID         | TECN | COMMENT                      |                   |
| $\sim 0.01$                                                                   | SARANTSEV           | 19   | DPWA $\bar{K}N$ multichannel |                   |
| • • • We do not use the following data for averages, fits, limits, etc. • • • |                     |      |                              |                   |
| 0.173                                                                         | <sup>1</sup> KAMANO | 15   | DPWA $\bar{K}N$ multichannel |                   |
| <sup>1</sup> From the preferred solution A in KAMANO 15.                      |                     |      |                              |                   |

| $\Gamma(\Sigma(1385)\pi, F\text{-wave})/\Gamma_{\text{total}}$                |                     |      |                              | $\Gamma_5/\Gamma$ |
|-------------------------------------------------------------------------------|---------------------|------|------------------------------|-------------------|
| VALUE                                                                         | DOCUMENT ID         | TECN | COMMENT                      |                   |
| <b>0.02 <math>\pm 0.01</math></b>                                             | SARANTSEV           | 19   | DPWA $\bar{K}N$ multichannel |                   |
| • • • We do not use the following data for averages, fits, limits, etc. • • • |                     |      |                              |                   |
| 0.055                                                                         | <sup>1</sup> KAMANO | 15   | DPWA $\bar{K}N$ multichannel |                   |
| <sup>1</sup> From the preferred solution A in KAMANO 15.                      |                     |      |                              |                   |

$\Gamma(\Lambda\eta)/\Gamma_{\text{total}}$  $\Gamma_6/\Gamma$ 

| VALUE | DOCUMENT ID | TECN | COMMENT |
|-------|-------------|------|---------|
|-------|-------------|------|---------|

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

|       |                     |    |                   |
|-------|---------------------|----|-------------------|
| 0.001 | <sup>1</sup> KAMANO | 15 | DPWA Multichannel |
|-------|---------------------|----|-------------------|

<sup>1</sup>From the preferred solution A in KAMANO 15. $\Gamma(\Xi K)/\Gamma_{\text{total}}$  $\Gamma_7/\Gamma$ 

| VALUE | DOCUMENT ID | TECN | COMMENT |
|-------|-------------|------|---------|
|-------|-------------|------|---------|

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

|          |                     |    |                   |
|----------|---------------------|----|-------------------|
| not seen | <sup>1</sup> KAMANO | 15 | DPWA Multichannel |
|----------|---------------------|----|-------------------|

<sup>1</sup>From the preferred solution A in KAMANO 15. $\Gamma(\Sigma\pi\pi)/\Gamma_{\text{total}}$  $\Gamma_8/\Gamma$ 

| VALUE | DOCUMENT ID | TECN | COMMENT |
|-------|-------------|------|---------|
|-------|-------------|------|---------|

|                 |                            |      |                                  |
|-----------------|----------------------------|------|----------------------------------|
| no clear signal | <sup>1</sup> ARMENTEROS68C | HDBC | $K^- N \rightarrow \Sigma\pi\pi$ |
|-----------------|----------------------------|------|----------------------------------|

<sup>1</sup>There is a suggestion of a bump, enough to be consistent with what is expected from  $\Sigma(1385) \rightarrow \Sigma\pi$  decay. $\Gamma(N\bar{K}^*(892), S=1/2, F\text{-wave})/\Gamma_{\text{total}}$  $\Gamma_9/\Gamma$ 

| VALUE | DOCUMENT ID | TECN | COMMENT |
|-------|-------------|------|---------|
|-------|-------------|------|---------|

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

|          |                     |    |                   |
|----------|---------------------|----|-------------------|
| not seen | <sup>1</sup> KAMANO | 15 | DPWA Multichannel |
|----------|---------------------|----|-------------------|

<sup>1</sup>From the preferred solution A in KAMANO 15. $\Gamma(N\bar{K}^*(892), S=3/2, P\text{-wave})/\Gamma_{\text{total}}$  $\Gamma_{10}/\Gamma$ 

| VALUE | DOCUMENT ID | TECN | COMMENT |
|-------|-------------|------|---------|
|-------|-------------|------|---------|

|                    |       |     |                   |
|--------------------|-------|-----|-------------------|
| <b>0.03 ± 0.01</b> | ZHANG | 13A | DPWA Multichannel |
|--------------------|-------|-----|-------------------|

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

|       |                     |    |                   |
|-------|---------------------|----|-------------------|
| 0.006 | <sup>1</sup> KAMANO | 15 | DPWA Multichannel |
|-------|---------------------|----|-------------------|

<sup>1</sup>From the preferred solution A in KAMANO 15. $\Gamma(N\bar{K}^*(892), S=3/2, F\text{-wave})/\Gamma_{\text{total}}$  $\Gamma_{11}/\Gamma$ 

| VALUE | DOCUMENT ID | TECN | COMMENT |
|-------|-------------|------|---------|
|-------|-------------|------|---------|

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

|          |                     |    |                   |
|----------|---------------------|----|-------------------|
| not seen | <sup>1</sup> KAMANO | 15 | DPWA Multichannel |
|----------|---------------------|----|-------------------|

<sup>1</sup>From the preferred solution A in KAMANO 15. $(\Gamma_i\Gamma_f)^{1/2}/\Gamma_{\text{total}}$  in  $N\bar{K} \rightarrow \Lambda(1820) \rightarrow \Sigma\pi$  $(\Gamma_1\Gamma_2)^{1/2}/\Gamma$ 

| VALUE | DOCUMENT ID | TECN | COMMENT |
|-------|-------------|------|---------|
|-------|-------------|------|---------|

|                  |       |     |                   |
|------------------|-------|-----|-------------------|
| $-0.28 \pm 0.01$ | ZHANG | 13A | DPWA Multichannel |
|------------------|-------|-----|-------------------|

|                  |       |    |                              |
|------------------|-------|----|------------------------------|
| $-0.28 \pm 0.03$ | GOPAL | 77 | DPWA $\bar{K}N$ multichannel |
|------------------|-------|----|------------------------------|

|                  |      |    |                                    |
|------------------|------|----|------------------------------------|
| $-0.28 \pm 0.01$ | KANE | 74 | DPWA $K^- p \rightarrow \Sigma\pi$ |
|------------------|------|----|------------------------------------|

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

|                    |                     |    |                              |
|--------------------|---------------------|----|------------------------------|
| $-0.25$ or $-0.25$ | <sup>1</sup> MARTIN | 77 | DPWA $\bar{K}N$ multichannel |
|--------------------|---------------------|----|------------------------------|

<sup>1</sup>The two MARTIN 77 values are from a T-matrix pole and from a Breit-Wigner fit.

| $(\Gamma_i \Gamma_f)^{1/2} / \Gamma_{\text{total}}$ in $N\bar{K} \rightarrow \Lambda(1820) \rightarrow \Sigma(1385)\pi$ , <i>P-wave</i> | $(\Gamma_1 \Gamma_4)^{1/2} / \Gamma$                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| VALUE                                                                                                                                   | DOCUMENT ID TECN COMMENT                                         |
| $-0.20 \pm 0.02$                                                                                                                        | ZHANG 13A DPWA Multichannel                                      |
| $-0.167 \pm 0.054$                                                                                                                      | <sup>1</sup> CAMERON 78 DPWA $K^- p \rightarrow \Sigma(1385)\pi$ |
| $+0.27 \pm 0.03$                                                                                                                        | PREVOST 74 DPWA $K^- N \rightarrow \Sigma(1385)\pi$              |

<sup>1</sup> The published sign has been changed to be in accord with the baryon-first convention.

| $(\Gamma_i \Gamma_f)^{1/2} / \Gamma_{\text{total}}$ in $N\bar{K} \rightarrow \Lambda(1820) \rightarrow \Sigma(1385)\pi$ , <i>F-wave</i> | $(\Gamma_1 \Gamma_5)^{1/2} / \Gamma$                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| VALUE                                                                                                                                   | DOCUMENT ID TECN COMMENT                                         |
| $+0.065 \pm 0.029$                                                                                                                      | <sup>1</sup> CAMERON 78 DPWA $K^- p \rightarrow \Sigma(1385)\pi$ |

<sup>1</sup> The published sign has been changed to be in accord with the baryon-first convention.

| $(\Gamma_i \Gamma_f)^{1/2} / \Gamma_{\text{total}}$ in $N\bar{K} \rightarrow \Lambda(1820) \rightarrow \Lambda\eta$ | $(\Gamma_1 \Gamma_6)^{1/2} / \Gamma$ |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| VALUE                                                                                                               | DOCUMENT ID TECN                     |
| $-0.096^{+0.040}_{-0.020}$                                                                                          | RADER 73 MPWA                        |

**$\Lambda(1820)$  REFERENCES**

|            |     |                   |                                           |                      |
|------------|-----|-------------------|-------------------------------------------|----------------------|
| SARANTSEV  | 19  | EPJ A55 180       | A.V. Sarantsev <i>et al.</i>              | (BONN, PNPI)         |
| KAMANO     | 15  | PR C92 025205     | H. Kamano <i>et al.</i>                   | (ANL, OSAK)          |
| ZHANG      | 13A | PR C88 035205     | H. Zhang <i>et al.</i>                    | (KSU)                |
| PDG        | 82  | PL 111B 1         | M. Roos <i>et al.</i>                     | (HELS, CIT, CERN)    |
| GOPAL      | 80  | Toronto Conf. 159 | G.P. Gopal                                | (RHEL) IJP           |
| ALSTON-... | 78  | PR D18 182        | M. Alston-Garnjost <i>et al.</i>          | (LBL, MTHO+) IJP     |
| Also       |     | PRL 38 1007       | M. Alston-Garnjost <i>et al.</i>          | (LBL, MTHO+) IJP     |
| CAMERON    | 78  | NP B143 189       | W. Cameron <i>et al.</i>                  | (RHEL, LOIC) IJP     |
| DECLAIS    | 77  | CERN 77-16        | Y. Declais <i>et al.</i>                  | (CAEN, CERN) IJP     |
| GOPAL      | 77  | NP B119 362       | G.P. Gopal <i>et al.</i>                  | (LOIC, RHEL) IJP     |
| MARTIN     | 77  | NP B127 349       | B.R. Martin, M.K. Pidcock, R.G. Moorhouse | (LOUC+) IJP          |
| Also       |     | NP B126 266       | B.R. Martin, M.K. Pidcock                 | (LOUC)               |
| Also       |     | NP B126 285       | B.R. Martin, M.K. Pidcock                 | (LOUC) IJP           |
| KANE       | 74  | LBL-2452          | D.F. Kane                                 | (LBL) IJP            |
| PREVOST    | 74  | NP B69 246        | J. Prevost <i>et al.</i>                  | (SACL, CERN, HEID)   |
| RADER      | 73  | NC 16A 178        | R.K. Rader <i>et al.</i>                  | (SACL, HEID, CERN+)  |
| ARMENTEROS | 68C | NP B8 216         | R. Armenteros <i>et al.</i>               | (CERN, HEID, SACL) I |