

**$\Sigma(1915) \, 5/2^+$**  $I(J^P) = 1(\frac{5}{2}^+)$  Status: \*\*\*

Discovered by COOL 66. For results published before 1974 (they are now obsolete), see our 1982 edition Physics Letters **111B** 1 (1982).

This entry only includes results from partial-wave analyses. Parameters of peaks seen in cross sections and invariant-mass distributions in this region used to be listed in a separate entry immediately following. They may be found in our 1986 edition Physics Letters **170B** 1 (1986).

 **$\Sigma(1915)$  POLE POSITION****REAL PART**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>1885 to 1915 (<math>\approx 1900</math>) OUR ESTIMATE</b>			
1908 $\pm 7$	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
1890 $^{+3}_{-2}$	<sup>1</sup> KAMANO 15	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •			
1897	ZHANG 13A	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

**-2xIMAGINARY PART**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>90 to 110 (<math>\approx 100</math>) OUR ESTIMATE</b>			
98 $\pm 12$	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
97 $^{+4}_{-6}$	<sup>1</sup> KAMANO 15	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •			
133	ZHANG 13A	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

 **$\Sigma(1915)$  POLE RESIDUES**

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

**Normalized residue in  $N\bar{K} \rightarrow \Sigma(1915) \rightarrow N\bar{K}$** 

MODULUS	PHASE (°)	DOCUMENT ID	TECN	COMMENT
<b>0.08 <math>\pm 0.02</math></b>	<b>-33 <math>\pm 15</math></b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.0391	-15	<sup>1</sup> KAMANO 15	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

**Normalized residue in  $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Sigma\pi$** 

MODULUS	PHASE (°)	DOCUMENT ID	TECN	COMMENT
<b>0.09 <math>\pm 0.02</math></b>	<b>180 <math>\pm 12</math></b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.157	157	<sup>1</sup> KAMANO 15	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

**Normalized residue in  $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Lambda\pi$** 

<u>MODULUS</u>	<u>PHASE (°)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.07 ±0.02</b>	<b>-170 ± 20</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.0757	166	<sup>1</sup> KAMANO 15	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

**Normalized residue in  $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Xi K$** 

<u>MODULUS</u>	<u>PHASE (°)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.02 ±0.01</b>	<b>-65 ± 35</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.002	-88	<sup>1</sup> KAMANO 15	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

**Normalized residue in  $N\bar{K} \rightarrow \Lambda(1915) \rightarrow \Sigma(1385)\pi$ , P-wave**

<u>MODULUS</u>	<u>PHASE (°)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.02 ±0.02</b>		SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.0724	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  $N\bar{K} \rightarrow \Lambda(1915) \rightarrow \Sigma(1385)\pi$ , F-wave**

<u>MODULUS</u>	<u>PHASE (°)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.05 ±0.03</b>	<b>-30 ± 50</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.0162	-163	<sup>1</sup> KAMANO 15	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

**Normalized residue in  $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Lambda(1520)\pi$ , D-wave**

<u>MODULUS</u>	<u>PHASE (°)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.08±0.02</b>	<b>-105 ± 50</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel

**Normalized residue in  $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Delta\bar{K}$ , P-wave**

<u>MODULUS</u>	<u>PHASE (°)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.12±0.03</b>	<b>-10 ± 20</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel

**Normalized residue in  $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Delta\bar{K}$ , F-wave**

<u>MODULUS</u>	<u>PHASE (°)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.07±0.02</b>	<b>-35 ± 25</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel

**Normalized residue in  $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Lambda(1520)\pi$ , G-wave**

<u>MODULUS</u>	<u>PHASE (°)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.01±0.01</b>		SARANTSEV 19	DPWA	$\bar{K}N$ multichannel

**Normalized residue in  $N\bar{K} \rightarrow \Sigma(1915) \rightarrow N\bar{K}^*(892)$ , S=1/2 , F-wave**

<u>MODULUS</u>	<u>PHASE (°)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.07 ±0.04</b>	<b>-60 ± 45</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.00476	4	<sup>1</sup> KAMANO 15	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

**Normalized residue in  $N\bar{K} \rightarrow \Sigma(1915) \rightarrow N\bar{K}^*(892)$ ,  $S=3/2$ ,  $P$ -wave**

<u>MODULUS</u>	<u>PHASE (°)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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• • • We do not use the following data for averages, fits, limits, etc. • • •

0.0494      51      <sup>1</sup> KAMANO      15      DPWA  $\bar{K}N$  multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

**Normalized residue in  $N\bar{K} \rightarrow \Sigma(1915) \rightarrow N\bar{K}^*(892)$ ,  $S=3/2$ ,  $F$ -wave**

<u>MODULUS</u>	<u>PHASE (°)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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**0.07 ±0.03 -40 ±45**      SARANTSEV      19      DPWA  $\bar{K}N$  multichannel

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

0.000314      16      <sup>1</sup> KAMANO      15      DPWA  $\bar{K}N$  multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

 **$\Sigma(1915)$  MASS**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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**1900 to 1935 ( $\approx 1915$ ) OUR ESTIMATE**

1918 ± 6      SARANTSEV      19      DPWA  $\bar{K}N$  multichannel

1920 ± 7      ZHANG      13A      DPWA  $\bar{K}N$  multichannel

1937 ± 20      ALSTON-...      78      DPWA  $\bar{K}N \rightarrow \bar{K}N$

1894 ± 5      <sup>1</sup> CORDEN      77C       $K^- n \rightarrow \Sigma \pi$

1909 ± 5      <sup>1</sup> CORDEN      77C       $K^- n \rightarrow \Sigma \pi$

1920 ± 10      GOPAL      77      DPWA  $\bar{K}N$  multichannel

1920 ± 30      BAILLON      75      IPWA  $\bar{K}N \rightarrow \Lambda \pi$

1914 ± 10      HEMINGWAY      75      DPWA  $K^- p \rightarrow \bar{K}N$

1920 <sup>+15</sup><sub>-20</sub>      VANHORN      75      DPWA  $K^- p \rightarrow \Lambda \pi^0$

1920 ± 5      KANE      74      DPWA  $K^- p \rightarrow \Sigma \pi$

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

not seen      DECLAIS      77      DPWA  $\bar{K}N \rightarrow \bar{K}N$

1925 or 1933      <sup>2</sup> MARTIN      77      DPWA  $\bar{K}N$  multichannel

1900 ± 4      <sup>3</sup> CORDEN      76      DPWA  $K^- n \rightarrow \Lambda \pi^-$

1915      DEBELLEFON      76      IPWA  $K^- p \rightarrow \Lambda \pi^0$

<sup>1</sup> The two entries for CORDEN 77C are from two different acceptable solutions.

<sup>2</sup> The two MARTIN 77 values are from a T-matrix pole and from a Breit-Wigner fit.

<sup>3</sup> Preferred solution 3; see CORDEN 76 for other possibilities.

 **$\Sigma(1915)$  WIDTH**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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**80 to 160 ( $\approx 120$ ) OUR ESTIMATE**

102 ± 12      SARANTSEV      19      DPWA  $\bar{K}N$  multichannel

149 ± 17      ZHANG      13A      DPWA Multichannel

161 ± 20      ALSTON-...      78      DPWA  $\bar{K}N \rightarrow \bar{K}N$

107 ± 14      <sup>1</sup> CORDEN      77C       $K^- n \rightarrow \Sigma \pi$

85 ± 13      <sup>1</sup> CORDEN      77C       $K^- n \rightarrow \Sigma \pi$

130 ± 10      GOPAL      77      DPWA  $\bar{K}N$  multichannel

70 ± 20      BAILLON      75      IPWA  $\bar{K}N \rightarrow \Lambda \pi$

$85 \pm 15$	HEMINGWAY	75	DPWA	$K^- p \rightarrow \bar{K}N$
$102 \pm 18$	VANHORN	75	DPWA	$K^- p \rightarrow \Lambda\pi^0$
$162 \pm 25$	KANE	74	DPWA	$K^- p \rightarrow \Sigma\pi$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
171 or 173	<sup>2</sup> MARTIN	77	DPWA	$\bar{K}N$ multichannel
$75 \pm 14$	<sup>3</sup> CORDEN	76	DPWA	$K^- n \rightarrow \Lambda\pi^-$
60	DEBELLEFON	76	IPWA	$K^- p \rightarrow \Lambda\pi^0$

<sup>1</sup> The two entries for CORDEN 77C are from two different acceptable solutions.

<sup>2</sup> The two MARTIN 77 values are from a T-matrix pole and from a Breit-Wigner fit.

<sup>3</sup> Preferred solution 3; see CORDEN 76 for other possibilities.

## $\Sigma(1915)$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 N\bar{K}$	0.05 to 0.15
$\Gamma_2 \Lambda\pi$	( 6.0 $\pm$ 2.0 ) %
$\Gamma_3 \Sigma\pi$	(10.0 $\pm$ 2.0 ) %
$\Gamma_4 \Xi K$	
$\Gamma_5 \Sigma(1385)\pi$	
$\Gamma_6 \Sigma(1385)\pi$ , P-wave	( 2.0 $\pm$ 2.0 ) %
$\Gamma_7 \Sigma(1385)\pi$ , F-wave	( 4.0 $\pm$ 2.0 ) %
$\Gamma_8 \Lambda(1520)\pi$ , D-wave	( 8.0 $\pm$ 2.0 ) %
$\Gamma_9 \Lambda(1520)\pi$ , G-wave	
$\Gamma_{10} N\bar{K}^*(892)$ , $S=1/2$ , F-wave	( 5.0 $\pm$ 3.0 ) %
$\Gamma_{11} N\bar{K}^*(892)$ , $S=3/2$ , P-wave	
$\Gamma_{12} N\bar{K}^*(892)$ , $S=3/2$ , F-wave	( 5.0 $\pm$ 2.0 ) %
$\Gamma_{13} \Delta\bar{K}$ , P-wave	(16 $\pm$ 5 ) %
$\Gamma_{14} \Delta\bar{K}$ , F-wave	( 5.0 $\pm$ 3.0 ) %

## $\Sigma(1915)$ BRANCHING RATIOS

See "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>0.05 to 0.15 OUR ESTIMATE</b>			
0.08 $\pm$ 0.02	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
$0.026 \pm 0.004$	ZHANG 13A	DPWA	$\bar{K}N$ multichannel
0.03 $\pm$ 0.02	<sup>1</sup> GOPAL 80	DPWA	$\bar{K}N \rightarrow \bar{K}N$
0.14 $\pm$ 0.05	ALSTON-... 78	DPWA	$\bar{K}N \rightarrow \bar{K}N$
0.11 $\pm$ 0.04	HEMINGWAY 75	DPWA	$K^- p \rightarrow \bar{K}N$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$			
0.036	<sup>2</sup> KAMANO 15	DPWA	$\bar{K}N$ multichannel
0.05 $\pm$ 0.03	GOPAL 77	DPWA	See GOPAL 80
0.08 or 0.08	<sup>3</sup> MARTIN 77	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> The mass and width are fixed to the GOPAL 77 values due to the low elasticity.

<sup>2</sup> From the preferred solution A in KAMANO 15.

<sup>3</sup> The two MARTIN 77 values are from a T-matrix pole and from a Breit-Wigner fit.

$\Gamma(\Lambda\pi)/\Gamma_{\text{total}}$  $\Gamma_2/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.06 ±0.02</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •			
0.127	<sup>1</sup> KAMANO 15	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

 $\Gamma(\Sigma\pi)/\Gamma_{\text{total}}$  $\Gamma_3/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.10 ±0.02</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •			
0.678	<sup>1</sup> KAMANO 15	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

 $\Gamma(\Xi K)/\Gamma_{\text{total}}$  $\Gamma_4/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<0.01	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • 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.

 $\Gamma(\Sigma(1385)\pi, P\text{-wave})/\Gamma_{\text{total}}$  $\Gamma_6/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.02 ±0.02</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •			
0.112	<sup>1</sup> KAMANO 15	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

 $\Gamma(\Sigma(1385)\pi, F\text{-wave})/\Gamma_{\text{total}}$  $\Gamma_7/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.04 ±0.02</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •			
0.004	<sup>1</sup> KAMANO 15	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

 $\Gamma(\Lambda(1520)\pi, D\text{-wave})/\Gamma_{\text{total}}$  $\Gamma_8/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.08±0.02</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel

 $\Gamma(\Lambda(1520)\pi, G\text{-wave})/\Gamma_{\text{total}}$  $\Gamma_9/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
def 0	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel

 $\Gamma(N\bar{K}^*(892), S=1/2, F\text{-wave})/\Gamma_{\text{total}}$  $\Gamma_{10}/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.05 ±0.03</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • 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.

$\Gamma(N\bar{K}^*(892), S=3/2, P\text{-wave})/\Gamma_{\text{total}}$   $\Gamma_{11}/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>			
0.042	<sup>1</sup> KAMANO	15	DPWA Multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

 $\Gamma(N\bar{K}^*(892), S=3/2, F\text{-wave})/\Gamma_{\text{total}}$   $\Gamma_{12}/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.05±0.02</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>			
not seen	<sup>1</sup> KAMANO	15	DPWA Multichannel

<sup>1</sup> From the preferred solution A in KAMANO 15.

 $\Gamma(\Delta\bar{K}, P\text{-wave})/\Gamma_{\text{total}}$   $\Gamma_{13}/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.16±0.05</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel

 $\Gamma(\Delta\bar{K}, F\text{-wave})/\Gamma_{\text{total}}$   $\Gamma_{14}/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>0.05±0.03</b>	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel

 $(\Gamma_i\Gamma_f)^{1/2}/\Gamma_{\text{total}}$  in  $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Lambda\pi$   $(\Gamma_1\Gamma_2)^{1/2}/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
-0.09 ± 0.03	GOPAL 77	DPWA	$\bar{K}N$ multichannel
-0.10 ± 0.01	<sup>1</sup> CORDEN 76	DPWA	$K^- n \rightarrow \Lambda\pi^-$
-0.06 ± 0.02	BAILLON 75	IPWA	$\bar{K}N \rightarrow \Lambda\pi$
-0.09 ± 0.02	VANHORN 75	DPWA	$K^- p \rightarrow \Lambda\pi^0$
-0.087 ± 0.056	DEVENISH 74B		Fixed- <i>t</i> dispersion rel.
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>			
-0.09 or -0.09	<sup>2</sup> MARTIN 77	DPWA	$\bar{K}N$ multichannel
-0.10	DEBELLEFON 76	IPWA	$K^- p \rightarrow \Lambda\pi^0$

<sup>1</sup> Preferred solution 3; see CORDEN 76 for other possibilities.

<sup>2</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  $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Sigma\pi$   $(\Gamma_1\Gamma_3)^{1/2}/\Gamma$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
-0.14 ± 0.01	ZHANG 13A	DPWA	Multichannel
-0.17 ± 0.01	<sup>1</sup> CORDEN 77C		$K^- n \rightarrow \Sigma\pi$
-0.15 ± 0.02	<sup>1</sup> CORDEN 77C		$K^- n \rightarrow \Sigma\pi$
-0.19 ± 0.03	GOPAL 77	DPWA	$\bar{K}N$ multichannel
-0.16 ± 0.03	KANE 74	DPWA	$K^- p \rightarrow \Sigma\pi$
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>			
-0.05 or -0.05	<sup>2</sup> MARTIN 77	DPWA	$\bar{K}N$ multichannel

<sup>1</sup> The two entries for CORDEN 77C are from two different acceptable solutions.

<sup>2</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 $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Sigma(1385)\pi$ , <b>P-wave</b>	$(\Gamma_1 \Gamma_6)^{1/2} / \Gamma$		
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<0.01	CAMERON	78	DPWA $K^- p \rightarrow \Sigma(1385)\pi$
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$(\Gamma_i \Gamma_f)^{1/2} / \Gamma_{\text{total}}$ in $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Sigma(1385)\pi$ , <b>F-wave</b>	$(\Gamma_1 \Gamma_7)^{1/2} / \Gamma$		
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
+0.06 ± 0.02	ZHANG	13A	DPWA Multichannel
+0.039 ± 0.009	<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.

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## $\Sigma(1915)$ REFERENCES

SARANTSEV	19	EPJ A55 180	A.V. Sarantsev <i>et al.</i>	(BONN, PNPI)
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ZHANG	13A	PR C88 035205	H. Zhang <i>et al.</i>	(KSU)
PDG	86	PL 170B 1	M. Aguilar-Benitez <i>et al.</i>	(CERN, CIT+)
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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
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CAMERON	78	NP B143 189	W. Cameron <i>et al.</i>	(RHEL, LOIC) IJP
CORDEN	77C	NP B125 61	M.J. Corden <i>et al.</i>	(BIRM) 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
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CORDEN	76	NP B104 382	M.J. Corden <i>et al.</i>	(BIRM) IJP
DEBELLEFON	76	NP B109 129	A. de Bellefon, A. Berthon	(CDEF) IJP
BAILLON	75	NP B94 39	P.H. Baillon, P.J. Litchfield	(CERN, RHEL) IJP
HEMINGWAY	75	NP B91 12	R.J. Hemingway <i>et al.</i>	(CERN, HEIDH, MPIM) IJP
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