

$\Sigma(1915) 5/2^+$ $I(J^P) = 1(\frac{5}{2}^+)$ 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
1885 to 1915 (\approx 1900) OUR ESTIMATE			
1908 ± 7	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
1890^{+3}_{-2}	¹ 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
¹ From the preferred solution A in KAMANO 15.			

–2×IMAGINARY PART

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
90 to 110 (\approx 100) OUR ESTIMATE			
98 ± 12	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
97^{+4}_{-6}	¹ 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
¹ 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
0.08 ± 0.02	–33 ± 15	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.0391	–15	¹ KAMANO 15	DPWA	$\bar{K}N$ multichannel
¹ 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
0.09 ± 0.02	180 ± 12	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.157	157	¹ KAMANO 15	DPWA	$\bar{K}N$ multichannel
¹ 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 ($^\circ$)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.07 ±0.02	-170 ± 20	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.0757	166	¹ KAMANO 15	DPWA	$\bar{K}N$ multichannel

¹From the preferred solution A in KAMANO 15.**Normalized residue in $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Xi K$**

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

¹From the preferred solution A in KAMANO 15.**Normalized residue in $N\bar{K} \rightarrow \Lambda(1915) \rightarrow \Sigma(1385)\pi, P\text{-wave}$**

<u>MODULUS</u>	<u>PHASE ($^\circ$)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.02 ±0.02		SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.0724	161	¹ KAMANO 15	DPWA	$\bar{K}N$ multichannel

¹From the preferred solution A in KAMANO 15.**Normalized residue in $N\bar{K} \rightarrow \Lambda(1915) \rightarrow \Sigma(1385)\pi, F\text{-wave}$**

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

¹From the preferred solution A in KAMANO 15.**Normalized residue in $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Lambda(1520)\pi, D\text{-wave}$**

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

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

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

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

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

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

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

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

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

¹From 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 ($^\circ$)</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	¹ KAMANO	15	DPWA $\bar{K}N$ multichannel
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¹From 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 ($^\circ$)</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
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• • • We do not use the following data for averages, fits, limits, etc. • • •

0.000314	16	¹ KAMANO	15	DPWA $\bar{K}N$ multichannel
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¹From 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 (≈ 1915) OUR ESTIMATE

1918 \pm 6	SARANTSEV	19	DPWA $\bar{K}N$ multichannel
1920 \pm 7	ZHANG	13A	DPWA $\bar{K}N$ multichannel
1937 \pm 20	ALSTON-...	78	DPWA $\bar{K}N \rightarrow \bar{K}N$
1894 \pm 5	¹ CORDEN	77C	$K^- n \rightarrow \Sigma \pi$
1909 \pm 5	¹ CORDEN	77C	$K^- n \rightarrow \Sigma \pi$
1920 \pm 10	GOPAL	77	DPWA $\bar{K}N$ multichannel
1920 \pm 30	BAILLON	75	IPWA $\bar{K}N \rightarrow \Lambda \pi$
1914 \pm 10	HEMINGWAY	75	DPWA $K^- p \rightarrow \bar{K}N$
1920 $^{+15}_{-20}$	VANHORN	75	DPWA $K^- p \rightarrow \Lambda \pi^0$
1920 \pm 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	² MARTIN	77	DPWA $\bar{K}N$ multichannel
1900 \pm 4	³ CORDEN	76	DPWA $K^- n \rightarrow \Lambda \pi^-$
1915	DEBELLEFON	76	IPWA $K^- p \rightarrow \Lambda \pi^0$

¹The two entries for CORDEN 77C are from two different acceptable solutions.

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

³Preferred 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 (≈ 120) OUR ESTIMATE

102 \pm 12	SARANTSEV	19	DPWA $\bar{K}N$ multichannel
149 \pm 17	ZHANG	13A	DPWA Multichannel
161 \pm 20	ALSTON-...	78	DPWA $\bar{K}N \rightarrow \bar{K}N$
107 \pm 14	¹ CORDEN	77C	$K^- n \rightarrow \Sigma \pi$
85 \pm 13	¹ CORDEN	77C	$K^- n \rightarrow \Sigma \pi$
130 \pm 10	GOPAL	77	DPWA $\bar{K}N$ multichannel
70 \pm 20	BAILLON	75	IPWA $\bar{K}N \rightarrow \Lambda \pi$
85 \pm 15	HEMINGWAY	75	DPWA $K^- p \rightarrow \bar{K}N$

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

¹ The two entries for CORDEN 77C are from two different acceptable solutions.

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

³ Preferred solution 3; see CORDEN 76 for other possibilities.

Σ(1915) DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $N\bar{K}$	0.05 to 0.15
Γ_2 $\Lambda\pi$	(6.0 ±2.0) %
Γ_3 $\Sigma\pi$	(10.0 ±2.0) %
Γ_4 ΞK	
Γ_5 $\Sigma(1385)\pi$	
Γ_6 $\Sigma(1385)\pi$, <i>P</i> -wave	(2.0 ±2.0) %
Γ_7 $\Sigma(1385)\pi$, <i>F</i> -wave	(4.0 ±2.0) %
Γ_8 $\Lambda(1520)\pi$, <i>D</i> -wave	(8.0 ±2.0) %
Γ_9 $\Lambda(1520)\pi$, <i>G</i> -wave	
Γ_{10} $N\bar{K}^*(892)$, <i>S</i> =1/2, <i>F</i> -wave	(5.0 ±3.0) %
Γ_{11} $N\bar{K}^*(892)$, <i>S</i> =3/2, <i>P</i> -wave	
Γ_{12} $N\bar{K}^*(892)$, <i>S</i> =3/2, <i>F</i> -wave	(5.0 ±2.0) %
Γ_{13} $\Delta\bar{K}$, <i>P</i> -wave	(16 ±5) %
Γ_{14} $\Delta\bar{K}$, <i>F</i> -wave	(5.0 ±3.0) %

Σ(1915) BRANCHING RATIOS

See “Sign conventions for resonance couplings” in the Note on Λ and Σ Resonances.

$\Gamma(N\bar{K})/\Gamma_{\text{total}}$				Γ_1/Γ
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
0.05 to 0.15 OUR ESTIMATE				
0.08 ±0.02	SARANTSEV	19	DPWA	$\bar{K} N$ multichannel
0.026±0.004	ZHANG	13A	DPWA	$\bar{K} N$ multichannel
0.03 ±0.02	¹ GOPAL	80	DPWA	$\bar{K} N \rightarrow \bar{K} N$
0.14 ±0.05	ALSTON-...	78	DPWA	$\bar{K} N \rightarrow \bar{K} N$
0.11 ±0.04	HEMINGWAY	75	DPWA	$K^- p \rightarrow \bar{K} N$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
0.036	² KAMANO	15	DPWA	$\bar{K} N$ multichannel
0.05 ±0.03	GOPAL	77	DPWA	See GOPAL 80
0.08 or 0.08	³ MARTIN	77	DPWA	$\bar{K} N$ multichannel

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

² From the preferred solution A in KAMANO 15.

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

$\Gamma(\Lambda\pi)/\Gamma_{\text{total}}$ Γ_2/Γ

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

 $\Gamma(\Sigma\pi)/\Gamma_{\text{total}}$ Γ_3/Γ

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

 $\Gamma(\Xi K)/\Gamma_{\text{total}}$ Γ_4/Γ

<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	¹ KAMANO 15	DPWA	Multichannel
¹ From the preferred solution A in KAMANO 15.			

 $\Gamma(\Sigma(1385)\pi, P\text{-wave})/\Gamma_{\text{total}}$ Γ_6/Γ

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

 $\Gamma(\Sigma(1385)\pi, F\text{-wave})/\Gamma_{\text{total}}$ Γ_7/Γ

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

 $\Gamma(\Lambda(1520)\pi, D\text{-wave})/\Gamma_{\text{total}}$ Γ_8/Γ

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

 $\Gamma(\Lambda(1520)\pi, G\text{-wave})/\Gamma_{\text{total}}$ Γ_9/Γ

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

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

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.05 ± 0.03	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel
• • • We do not use the following data for averages, fits, limits, etc. • • •			
0.001	¹ KAMANO 15	DPWA	Multichannel
¹ From the preferred solution A in KAMANO 15.			

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

VALUE	DOCUMENT ID	TECN	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

0.042	¹ KAMANO	15	DPWA Multichannel
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¹ From the preferred solution A in KAMANO 15.

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

VALUE	DOCUMENT ID	TECN	COMMENT
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0.05±0.02	SARANTSEV	19	DPWA $\bar{K}N$ multichannel
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• • • We do not use the following data for averages, fits, limits, etc. • • •

not seen	¹ KAMANO	15	DPWA Multichannel
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¹ From the preferred solution A in KAMANO 15.

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

VALUE	DOCUMENT ID	TECN	COMMENT
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0.16±0.05	SARANTSEV	19	DPWA $\bar{K}N$ multichannel
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 $\Gamma(\Delta\bar{K}, F\text{-wave})/\Gamma_{\text{total}}$ Γ_{14}/Γ

VALUE	DOCUMENT ID	TECN	COMMENT
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0.05±0.03	SARANTSEV	19	DPWA $\bar{K}N$ multichannel
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 $(\Gamma_i\Gamma_f)^{1/2}/\Gamma_{\text{total}}$ in $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Lambda\pi$ $(\Gamma_1\Gamma_2)^{1/2}/\Gamma$

VALUE	DOCUMENT ID	TECN	COMMENT
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-0.09 ±0.03	GOPAL	77	DPWA $\bar{K}N$ multichannel
-0.10 ±0.01	¹ 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.

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

-0.09 or -0.09	² MARTIN	77	DPWA $\bar{K}N$ multichannel
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-0.10	DEBELLEFON	76	IPWA $K^- p \rightarrow \Lambda\pi^0$
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¹ Preferred solution 3; see CORDEN 76 for other possibilities.

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

VALUE	DOCUMENT ID	TECN	COMMENT
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-0.14±0.01	ZHANG	13A	DPWA Multichannel
-0.17±0.01	¹ CORDEN	77C	$K^- n \rightarrow \Sigma\pi$
-0.15±0.02	¹ 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 $K^- p \rightarrow \Sigma\pi$

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

-0.05 or -0.05	² MARTIN	77	DPWA $\bar{K}N$ multichannel
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¹ The two entries for CORDEN 77C are from two different acceptable solutions.

² 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 $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Sigma(1385)\pi$, <i>P</i> -wave	$(\Gamma_1 \Gamma_6)^{1/2} / \Gamma$
VALUE	DOCUMENT ID TECN COMMENT
<0.01	CAMERON 78 DPWA $K^- p \rightarrow \Sigma(1385)\pi$

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

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

Σ(1915) 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 86	PL 170B 1	M. Aguilar-Benitez <i>et al.</i>	(CERN, CIT+)
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
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
Also	NP B126 266	B.R. Martin, M.K. Pidcock	(LOUC)
Also	NP B126 285	B.R. Martin, M.K. Pidcock	(LOUC) IJP
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
VANHORN 75	NP B87 145	A.J. van Horn	(LBL) IJP
Also	NP B87 157	A.J. van Horn	(LBL) IJP
DEVENISH 74B	NP B81 330	R.C.E. Devenish, C.D. Froggatt, B.R. Martin	(DESY+)
KANE 74	LBL-2452	D.F. Kane	(LBL) IJP
COOL 66	PRL 16 1228	R.L. Cool <i>et al.</i>	(BNL)