

$$\Sigma(1915) \ 5/2^+$$

$$I(J^P) = 1(\frac{5}{2}^+) \text{ Status: } ****$$

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).

NODE=B046

NODE=B046

$\Sigma(1915)$ 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.			

NODE=B046225

NODE=B046RE
NODE=B046RE

→ UNCHECKED ←

−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.			

NODE=B046RE;LINKAGE=A

NODE=B046IM
NODE=B046IM

→ UNCHECKED ←

$\Sigma(1915)$ 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.				

NODE=B046250

NODE=B046250

NODE=B046A00
NODE=B046A00

NODE=B046A00;LINKAGE=A

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.				

NODE=B046A01
NODE=B046A01

NODE=B046A01;LINKAGE=A

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

MODULUS	PHASE (°)	DOCUMENT ID	TECN	COMMENT
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
¹ From the preferred solution A in KAMANO 15.				

NODE=B046A02
NODE=B046A02

NODE=B046A02;LINKAGE=A

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

MODULUS	PHASE (°)	DOCUMENT ID	TECN	COMMENT
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
¹ From the preferred solution A in KAMANO 15.				

NODE=B046A03
NODE=B046A03

NODE=B046A03;LINKAGE=A

Normalized residue in $N\bar{K} \rightarrow \Lambda(1915) \rightarrow \Sigma(1385)\pi$, P -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. • • •				
0.0724	161	¹ KAMANO 15	DPWA	$\bar{K}N$ multichannel
¹ From the preferred solution A in KAMANO 15.				

NODE=B046A07
 NODE=B046A07

NODE=B046A07;LINKAGE=A

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

MODULUS	PHASE (°)	DOCUMENT ID	TECN	COMMENT
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
¹ From the preferred solution A in KAMANO 15.				

NODE=B046A08
 NODE=B046A08

NODE=B046A08;LINKAGE=A

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

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

NODE=B046A11
 NODE=B046A11

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

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

NODE=B046A15
 NODE=B046A15

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

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

NODE=B046A14
 NODE=B046A14

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

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

NODE=B046A12
 NODE=B046A12

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

MODULUS	PHASE (°)	DOCUMENT ID	TECN	COMMENT
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
¹ From the preferred solution A in KAMANO 15.				

NODE=B046A04
 NODE=B046A04

NODE=B046A04;LINKAGE=A

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

MODULUS	PHASE (°)	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.0494	51	¹ KAMANO 15	DPWA	$\bar{K}N$ multichannel
¹ From the preferred solution A in KAMANO 15.				

NODE=B046A05
 NODE=B046A05

NODE=B046A05;LINKAGE=A

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

MODULUS	PHASE (°)	DOCUMENT ID	TECN	COMMENT
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	¹ KAMANO 15	DPWA	$\bar{K}N$ multichannel
¹ From the preferred solution A in KAMANO 15.				

NODE=B046A06
 NODE=B046A06

NODE=B046A06;LINKAGE=A

 $\Sigma(1915)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
1900 to 1935 (≈ 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	¹ CORDEN 77C		$K^- n \rightarrow \Sigma\pi$
1909 ± 5	¹ 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 ⁺¹⁵ ₋₂₀	VANHORN 75	DPWA	$K^- p \rightarrow \Lambda\pi^0$
1920 ± 5	KANE 74	DPWA	$K^- p \rightarrow \Sigma\pi$

NODE=B046M

NODE=B046M

→ UNCHECKED ←

OCCUR=2

• • • 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 ± 4	³ CORDEN	76	DPWA	$K^- n \rightarrow \Lambda \pi^-$
1915	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.

NODE=B046M;LINKAGE=B
NODE=B046M;LINKAGE=C
NODE=B046M;LINKAGE=A

$\Sigma(1915)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
80 to 160 (≈ 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	¹ CORDEN	77C	$K^- n \rightarrow \Sigma \pi$
85 ± 13	¹ 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 ± 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.			

NODE=B046W

NODE=B046W

→ UNCHECKED ←

OCCUR=2

NODE=B046;LINKAGE=B
NODE=B046W;LINKAGE=C
NODE=B046W;LINKAGE=B

$\Sigma(1915)$ 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 $\Sigma(1385)\pi$, P-wave	(2.0 ± 2.0) %
Γ_7 $\Sigma(1385)\pi$, F-wave	(4.0 ± 2.0) %
Γ_8 $\Lambda(1520)\pi$, D-wave	(8.0 ± 2.0) %
Γ_9 $\Lambda(1520)\pi$, G-wave	
Γ_{10} $N\bar{K}^*(892)$, S=1/2, F-wave	(5.0 ± 3.0) %
Γ_{11} $N\bar{K}^*(892)$, S=3/2, P-wave	
Γ_{12} $N\bar{K}^*(892)$, S=3/2, F-wave	(5.0 ± 2.0) %
Γ_{13} $\Delta \bar{K}$, P-wave	(16 ± 5) %
Γ_{14} $\Delta \bar{K}$, F-wave	(5.0 ± 3.0) %

DESIG=1
DESIG=2
DESIG=3
DESIG=182
DESIG=181
DESIG=4
DESIG=5
DESIG=190
DESIG=191
DESIG=183
DESIG=184
DESIG=185
DESIG=188
DESIG=189

NODE=B046215;NODE=B046

$\Sigma(1915)$ BRANCHING RATIOS

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

NODE=B046220

NODE=B046220

$\Gamma(N\bar{K})/\Gamma_{\text{total}}$

VALUE	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
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 $K^- p \rightarrow \bar{K}N$	

NODE=B046R1
NODE=B046R1
→ UNCHECKED ←

• • • 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.

NODE=B046;LINKAGE=E
NODE=B046R1;LINKAGE=A
NODE=B046;LINKAGE=C

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

VALUE	DOCUMENT ID	TECN	COMMENT
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
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¹ From the preferred solution A in KAMANO 15.

NODE=B046R00
NODE=B046R00

NODE=B046R00;LINKAGE=A

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

VALUE	DOCUMENT ID	TECN	COMMENT
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
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¹ From the preferred solution A in KAMANO 15.

NODE=B046R01
NODE=B046R01

NODE=B046R01;LINKAGE=A

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

VALUE	DOCUMENT ID	TECN	COMMENT
<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
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¹ From the preferred solution A in KAMANO 15.

NODE=B046R02
NODE=B046R02

NODE=B046R02;LINKAGE=A

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

VALUE	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. • • •

0.112	¹ KAMANO	15	DPWA	$\bar{K}N$ multichannel
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¹ From the preferred solution A in KAMANO 15.

NODE=B046R08
NODE=B046R08

NODE=B046R08;LINKAGE=A

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

VALUE	DOCUMENT ID	TECN	COMMENT
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
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¹ From the preferred solution A in KAMANO 15.

NODE=B046R09
NODE=B046R09

NODE=B046R09;LINKAGE=A

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

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

NODE=B046R03
NODE=B046R03

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

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

NODE=B046R04
NODE=B046R04

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

VALUE	DOCUMENT ID	TECN	COMMENT
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
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¹ From the preferred solution A in KAMANO 15.

NODE=B046R05
NODE=B046R05

OCCUR=2

NODE=B046R05;LINKAGE=A

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

NODE=B046R06
NODE=B046R06

NODE=B046R06;LINKAGE=A

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

VALUE	DOCUMENT ID	TECN	COMMENT
0.05±0.02	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.

NODE=B046R07
 NODE=B046R07

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

VALUE	DOCUMENT ID	TECN	COMMENT
0.16±0.05	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel

NODE=B046R10
 NODE=B046R10

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

VALUE	DOCUMENT ID	TECN	COMMENT
0.05±0.03	SARANTSEV 19	DPWA	$\bar{K}N$ multichannel

NODE=B046R11
 NODE=B046R11

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

VALUE	DOCUMENT ID	TECN	COMMENT
-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- t 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
-0.10	DEBELLEFON 76	IPWA	$K^- p \rightarrow \Lambda\pi^0$

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.

NODE=B046R2
 NODE=B046R2

NODE=B046;LINKAGE=A
 NODE=B046R2;LINKAGE=C

 $(\Gamma_i\Gamma_f)^{1/2}/\Gamma_{\text{total}}$ in $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Sigma\pi$ $(\Gamma_1\Gamma_3)^{1/2}/\Gamma$

VALUE	DOCUMENT ID	TECN	COMMENT
-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

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.

NODE=B046R3
 NODE=B046R3

OCCUR=2

NODE=B046R3;LINKAGE=B
 NODE=B046R3;LINKAGE=C

 $(\Gamma_i\Gamma_f)^{1/2}/\Gamma_{\text{total}}$ in $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Sigma(1385)\pi, P\text{-wave}$ $(\Gamma_1\Gamma_6)^{1/2}/\Gamma$

VALUE	DOCUMENT ID	TECN	COMMENT
<0.01	CAMERON 78	DPWA	$K^- p \rightarrow \Sigma(1385)\pi$

NODE=B046R4
 NODE=B046R4

 $(\Gamma_i\Gamma_f)^{1/2}/\Gamma_{\text{total}}$ in $N\bar{K} \rightarrow \Sigma(1915) \rightarrow \Sigma(1385)\pi, F\text{-wave}$ $(\Gamma_1\Gamma_7)^{1/2}/\Gamma$

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.

NODE=B046R5
 NODE=B046R5

NODE=B046;LINKAGE=F

 $\Sigma(1915)$ 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+) IJP
KANE 74	LBL-2452	D.F. Kane	(LBL) IJP
COOL 66	PRL 16 1228	R.L. Cool <i>et al.</i>	(BNL)

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