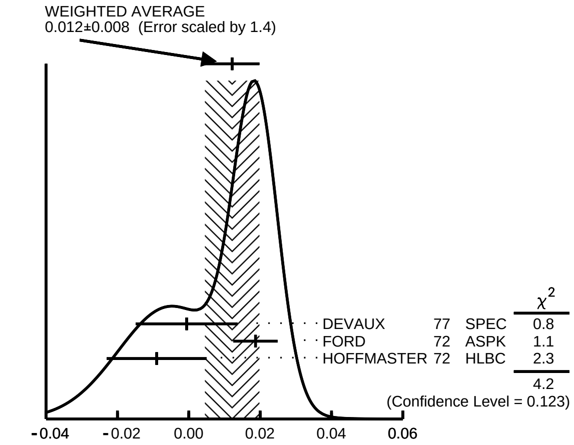
QUADRATIC COEFFICIENT h FOR $K^+ \rightarrow \pi^+\pi^+\pi^-$

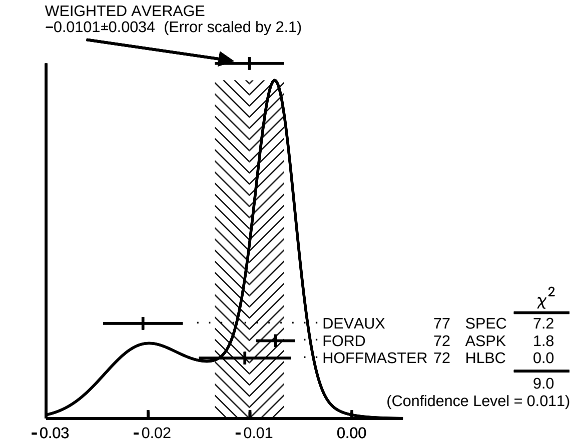
VALUE	EVTS	DOCUMENT ID		TECN	CHG
0.012 ±0.008 OUR AVERAGE		Error includes scale factor of 1.4. See the ideogram below.			
−0.0006±0.0143	225k	DEVAUX	77	SPEC	+
0.0187±0.0062	750k	FORD	72	ASPK	+
−0.009 ±0.014	39819	HOFFMASTER	72	HLBC	+



Quadratic coefficient h for $K^+ \rightarrow \pi^+\pi^+\pi^-$

QUADRATIC COEFFICIENT k FOR $K^+ \rightarrow \pi^+\pi^+\pi^-$

VALUE	EVTS	DOCUMENT ID		TECN	CHG
−0.0101±0.0034 OUR AVERAGE		Error includes scale factor of 2.1. See the ideogram below.			
−0.0205±0.0039	225k	DEVAUX	77	SPEC	+
−0.0075±0.0019	750k	FORD	72	ASPK	+
−0.0105±0.0045	39819	HOFFMASTER	72	HLBC	+



Quadratic coefficient k for $K^+ \rightarrow \pi^+\pi^+\pi^-$

LINEAR COEFFICIENT g_{τ^-} FOR $K^- \rightarrow \pi^-\pi^-\pi^+$

Some experiments use Dalitz variables x and y. In the comments we give a_y = coefficient of y term. See note above on "Dalitz Plot Parameters for $K \rightarrow 3\pi$ Decays." For discussion of the conversion of a_y to g, see the earlier version of the same note in the *Review* published in Physics Letters **111B** 70 (1982).

VALUE	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
−0.217 ±0.007 OUR AVERAGE		Error includes scale factor of 2.5.				
−0.2186±0.0028	750k	FORD	72	ASPK	−	a_y=.2770 ± .0035
−0.193 ±0.010	50919	MAST	69	HBC	−	a_y=0.244 ± 0.013
• • • We do not use the following data for averages, fits, limits, etc. • • •						
−0.199 ±0.008	81k	[65] LUCAS	73	HBC	−	a_y=0.252 ± 0.011
−0.190 ±0.023	5778	[66,67] MOSCOSO	68	HBC	−	a_y=0.242 ± 0.029
−0.220 ±0.035	1347	[68] FERRO-LUZZI	61	HBC	−	a_y=0.28 ± 0.045

[65] Quadratic dependence is required by K_L^0 experiments. For comparison we average only those $K^{\pm}$ experiments which quote quadratic fit values.
[66] Experiments with large errors not included in average.
[67] Also includes DBC events.
[68] No radiative corrections included.

QUADRATIC COEFFICIENT h FOR $K^- \rightarrow \pi^-\pi^-\pi^+$

VALUE	EVTS	DOCUMENT ID		TECN	CHG
0.010 ±0.006 OUR AVERAGE					
0.0125±0.0062	750k	FORD	72	ASPK	−
−0.001 ±0.012	50919	MAST	69	HBC	−

QUADRATIC COEFFICIENT k FOR $K^- \rightarrow \pi^-\pi^-\pi^+$

VALUE	EVTS	DOCUMENT ID		TECN	CHG
−0.0084±0.0019 OUR AVERAGE					
−0.0083±0.0019	750k	FORD	72	ASPK	−
−0.014 ±0.012	50919	MAST	69	HBC	−

$(g_{\tau^+} - g_{\tau^-})$ / $(g_{\tau^+} + g_{\tau^-})$ FOR $K^{\pm} \rightarrow \pi^{\pm}\pi^+\pi^-$

A nonzero value for this quantity indicates *CP* violation.

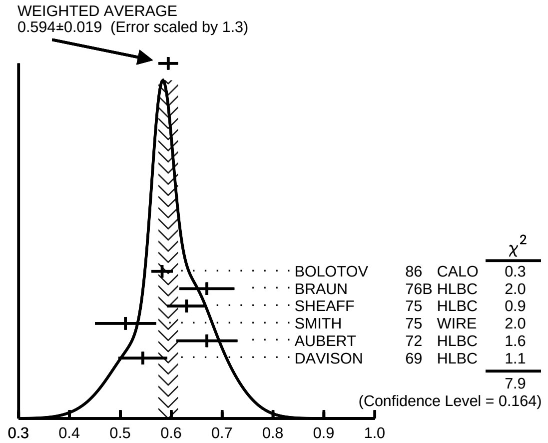
VALUE (%)	EVTS	DOCUMENT ID		TECN
−0.70±0.53	3.2M	FORD	70	ASPK

LINEAR COEFFICIENT g FOR $K^{\pm} \rightarrow \pi^{\pm}\pi^0\pi^0$

Unless otherwise stated, all experiments include terms quadratic in $(s_3 - s_0) / m^2_{\pi^+}$. See mini-review above.

VALUE	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
0.594±0.019 OUR AVERAGE		Error includes scale factor of 1.3. See the ideogram below.				
0.582±0.021	43k	BOLOTOV	86	CALO	−	
0.670±0.054	3263	BRAUN	76B	HLBC	+	
0.630±0.038	5635	SHEAFF	75	HLBC	+	
0.510±0.060	27k	SMITH	75	WIRE	+	
0.67 ±0.06	1365	AUBERT	72	HLBC	+	
0.544±0.048	4048	DAVISON	69	HLBC	+	Also emulsion
• • • We do not use the following data for averages, fits, limits, etc. • • •						
0.806±0.220	4639	[69] BERTRAND	76	EMUL	+	
0.484±0.084	574	[70] LUCAS	73B	HBC	−	Dalitz pairs only
0.527±0.102	198	[69] PANDOULAS	70	EMUL	+	
0.586±0.098	1874	[70] BISI	65	HLBC	+	Also HBC
0.48 ±0.04	1792	[70] KALMUS	64	HLBC	+	

[69] Experiments with large errors not included in average.
[70] Authors give linear fit only.



Linear energy dependence for $K^{\pm} \rightarrow \pi^{\pm}\pi^0\pi^0$

QUADRATIC COEFFICIENT h FOR $K^{\pm} \rightarrow \pi^{\pm}\pi^0\pi^0$

See mini-review above.

VALUE	DOCUMENT ID		TECN	CHG	COMMENT
0.035±0.015 OUR AVERAGE					
0.037±0.024	43k BOLOTOV	86	CALO	−	
0.152±0.082	3263 BRAUN	76B	HLBC	+	
0.041±0.030	5635 SHEAFF	75	HLBC	+	
0.009±0.040	27k SMITH	75	WIRE	+	
−0.01 ±0.08	1365 AUBERT	72	HLBC	+	
0.026±0.050	4048 DAVISON	69	HLBC	+	Also emulsion
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.164±0.121	4639 [71] BERTRAND	76	EMUL	+	
0.018±0.124	198 [71] PANDOULAS	70	EMUL	+	

[71] Experiments with large errors not included in average.