K^0 – THIS IS PART 2 OF 3

To reduce the size of this section's PostScript file, we have divided it into three PostScript files. We present the following index:

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ENERGY DEPENDENCE OF K^0_L DALITZ PLOT

For discussion, see note on Dalitz plot parameters in the $K^\pm$ section of the Particle Listings above. For definitions of a_v, a_t, a_u, and a_y, see the earlier version of the same note in the 1982 edition of this *Review* published in Physics Letters **111B** 70 (1982).

$|\text{matrix element}|^2 = 1 + gu + hu^2 + jv + kv^2$
where $u = (s_3 - s_0) / m^2_\pi$ and $v = (s_1 - s_2) / m^2_\pi$

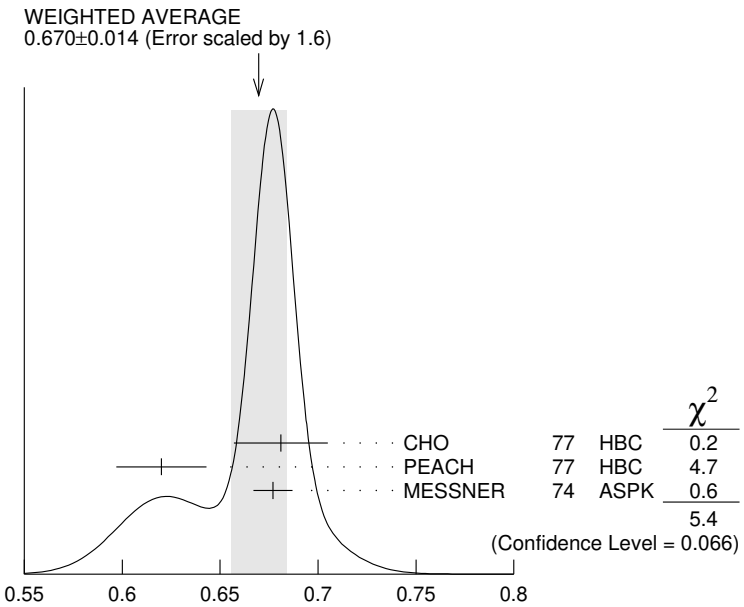
LINEAR COEFFICIENT g FOR $K^0_L \to \pi^+\pi^-\pi^0$

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.670±0.014 OUR AVERAGE		Error includes scale factor of 1.6. See the ideogram below.			
0.681±0.024	6499	CHO	77	HBC	
0.620±0.023	4709	PEACH	77	HBC	
0.677±0.010	509k	MESSNER	74	ASPK	$a_y = -0.917 \pm 0.013$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.69 ±0.07	192	[64] BALDO-...	75	HLBC	
0.590±0.022	56k	[64] BUCHANAN	75	SPEC	$a_u = -0.277 \pm 0.010$
0.619±0.027	20k	[64,65] BISI	74	ASPK	$a_t = -0.282 \pm 0.011$
0.612±0.032		[64] ALEXANDER	73B	HBC	
0.73 ±0.04	3200	[64] BRANDENB...	73	HBC	
0.50 ±0.11	180	[64] JAMES	72	HBC	
0.608±0.043	1486	[64] KRENZ	72	HLBC	$a_t = -0.277 \pm 0.018$
0.688±0.074	384	[64] METCALF	72	ASPK	$a_t = -0.31 \pm 0.03$
0.650±0.012	29k	[64] ALBROW	70	ASPK	$a_y = -0.858 \pm 0.015$
0.593±0.022	36k	[64,66] BUCHANAN	70	SPEC	$a_u = -0.278 \pm 0.010$
0.664±0.056	4400	[64] SMITH	70	OSPK	$a_t = -0.306 \pm 0.024$
0.400±0.045	2446	[64] BASILE	68B	OSPK	$a_t = -0.188 \pm 0.020$
0.649±0.044	1350	[64] HOPKINS	67	HBC	$a_t = -0.294 \pm 0.018$
0.428±0.055	1198	[64] NEFKENS	67	OSPK	$a_u = -0.204 \pm 0.025$
0.64 ±0.17	280	[64] ANIKINA	66	CC	$a_v = -8.2^{+0.9}_{-1.3}$
0.70 ±0.12	126	[64] HAWKINS	66	HBC	$a_v = -8.6 \pm 0.7$
0.32 ±0.13	66	[64] ASTBURY	65	CC	$a_v = -5.5 \pm 1.5$
0.51 ±0.09	310	[64] ASTBURY	65B	CC	$a_v = -7.3^{+0.6}_{-0.8}$
0.55 ±0.23	79	[64] ADAIR	64	HBC	$a_v = -7.6 \pm 1.7$
0.51 ±0.20	77	[64] LUERS	64	HBC	$a_v = -7.3 \pm 1.6$

[64] Quadratic dependence required by some experiments. (See sections on "QUADRATIC COEFFICIENT h" and "QUADRATIC COEFFICIENT k" below.) Correlations prevent us from averaging results of fits not including g, h, and k terms.

[65] BISI 74 value comes from quadratic fit with quad. term consistent with zero. g error is thus larger than if linear fit were used.

[66] BUCHANAN 70 result revised by BUCHANAN 75 to include radiative correlations and to use more reliable K^0_L momentum spectrum of second experiment (had same beam).



Linear coeff. g for $K^0_L \to \pi^+\pi^-\pi^0$ matrix element squared

QUADRATIC COEFFICIENT h FOR $K^0_L \to \pi^+\pi^-\pi^0$

VALUE	EVTS	DOCUMENT ID		TECN
0.079±0.007 OUR AVERAGE				
0.095±0.032	6499	CHO	77	HBC
0.048±0.036	4709	PEACH	77	HBC
0.079±0.007	509k	MESSNER	74	ASPK
• • • We do not use the following data for averages, fits, limits, etc. • • •				
−0.011±0.018	29k	[67] ALBROW	70	ASPK
0.043±0.052	4400	[67] SMITH	70	OSPK

See notes in section "LINEAR COEFFICIENT g FOR $K^0_L \to \pi^+\pi^-\pi^0$ |MATRIX ELEMENT|^2" above.

[67] Quadratic coefficients h and k required by some experiments. (See section on "QUADRATIC COEFFICIENT k" below.) Correlations prevent us from averaging results of fits not including g, h, and k terms.

QUADRATIC COEFFICIENT k FOR $K^0_L \to \pi^+\pi^-\pi^0$

VALUE	EVTS	DOCUMENT ID		TECN
0.0098±0.0018 OUR AVERAGE				
0.024 ±0.010	6499	CHO	77	HBC
−0.008 ±0.012	4709	PEACH	77	HBC
0.0097±0.0018	509k	MESSNER	74	ASPK

LINEAR COEFFICIENT j FOR $K^0_L \to \pi^+\pi^-\pi^0$ (CP-VIOLATING TERM)

Listed in CP-violation section below.

QUADRATIC COEFFICIENT h FOR $K_L^0 \to \pi^0\pi^0\pi^0$

VALUE (units 10^{-3})	*EVTS*	*DOCUMENT ID*		*TECN*
$-$**3.3±1.1±0.7**	5M	[68] SOMALWAR	92	E731

[68] SOMALWAR 92 chose m_{π^+} as normalization to make it compatible with the Particle Data Group $K_L^0 \to \pi^+\pi^-\pi^0$ definitions.

K_L^0 FORM FACTORS

For discussion, see note on form factors in the $K^\pm$ section of the Particle Listings above.

In the form factor comments, the following symbols are used.

f_+ and f_- are form factors for the vector matrix element.

f_S and f_T refer to the scalar and tensor term.

$f_0 = f_+ + f_- t/(m_K^2 - m_\pi^2)$.

λ_+, λ_-, and λ_0 are the linear expansion coefficients of f_+, f_-, and f_0.

λ_+ refers to the $K_{\mu 3}^0$ value except in the K_{e3}^0 sections.

$d\xi(0)/d\lambda_+$ is the correlation between $\xi(0)$ and λ_+ in $K_{\mu 3}^0$.

$d\lambda_0/d\lambda_+$ is the correlation between λ_0 and λ_+ in $K_{\mu 3}^0$.

t = momentum transfer to the π in units of m_π^2.

DP = Dalitz plot analysis.

PI = π spectrum analysis.

MU = μ spectrum analysis.

POL= μ polarization analysis.

BR = $K_{\mu 3}^0/K_{e3}^0$ branching ratio analysis.

E = positron or electron spectrum analysis.

RC = radiative corrections.

λ_+ (LINEAR ENERGY DEPENDENCE OF f_+ IN K_{e3}^0 DECAY)

For radiative correction of K_{e3}^0 DP, see GINSBERG 67 and BECHERRAWY 70.

VALUE	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
0.0300±0.0016 OUR AVERAGE		Error includes scale factor of 1.2.			
0.0306±0.0034	74k	BIRULEV	81	SPEC	DP
0.025 ±0.005	12k	[69] ENGLER	78B	HBC	DP
0.0348±0.0044	18k	HILL	78	STRC	DP
0.0312±0.0025	500k	GJESDAL	76	SPEC	DP
0.0270±0.0028	25k	BLUMENTHAL	75	SPEC	DP
0.044 ±0.006	24k	BUCHANAN	75	SPEC	DP
0.040 ±0.012	2171	WANG	74	OSPK	DP
0.045 ±0.014	5600	ALBROW	73	ASPK	DP
0.019 ±0.013	1871	BRANDENB...	73	HBC	PI transv.
0.022 ±0.014	1910	NEUHOFER	72	ASPK	PI

0.023	±0.005	42k	BISI	71	ASPK	DP
0.05	±0.01	16k	CHIEN	71	ASPK	DP, no RC
0.02	±0.013	1000	ARONSON	68	OSPK	PI
+0.023	±0.012	4800	BASILE	68	OSPK	DP, no RC
−0.01	±0.02	762	FIRESTONE	67	HBC	DP, no RC
+0.01	±0.015	531	KADYK	67	HBC	*e*,PI, no RC
+0.08	$^{+0.10}_{-0.08}$	240	LOWYS	67	FBC	PI
+0.15	±0.08	577	FISHER	65	OSPK	DP, no RC
+0.07	±0.06	153	LUERS	64	HBC	DP, no RC

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

0.029	±0.005	19k	[69] CHO	80	HBC	DP
0.0286	±0.0049	26k	BIRULEV	79	SPEC	Repl. by BIRULEV 81
0.032	±0.0042	48k	BIRULEV	76	SPEC	Repl. by BIRULEV 81

[69] ENGLER 78B uses an unique K_{e3} subset of CHO 80 events and is less subject to systematic effects.

$\xi_a = f_-/f_+$ (determined from $K^0_{\mu 3}$ spectra)

The parameter ξ is redundant with λ_0 below and is not put into the Meson Summary Table.

VALUE	$d\xi(0)/d\lambda_+$	EVTS	DOCUMENT ID		TECN	COMMENT
−0.11±0.09 OUR EVALUATION			From a fit discussed in note on $K_{\ell 3}$ form factors in 1982 edition, PL **111B** (April 1982).			
−0.10±0.09	−12	150k	[70] BIRULEV	81	SPEC	DP
+0.26±0.16	−13	14k	[71] CHO	80	HBC	DP
+0.13±0.23	−20	16k	[71] HILL	79	STRC	DP
−0.25±0.22	−5.9	32k	[72] BUCHANAN	75	SPEC	DP
−0.11±0.07	−17	1.6M	[73] DONALDSON	74B	SPEC	DP
−1.00±0.45	−20	1385	[74] PEACH	73	HLBC	DP
−1.5 ±0.7	−28	9086	[75] ALBROW	72	ASPK	DP
+1.2 ±0.8	−18	1341	[76] CARPENTER	66	OSPK	DP

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

+0.50±0.61	unknown	16k	[77] DALLY	72	ASPK	DP
−3.9 ±0.4		3140	[78] BASILE	70	OSPK	DP, indep of λ_+
−0.68 $^{+0.12}_{-0.20}$	−26	16k	[77] CHIEN	70	ASPK	DP

[70] BIRULEV 81 error, $d\xi(0)/d\lambda_+$ calculated by us from λ_0, λ_+. $d\lambda_0/d\lambda_+ = 0$ used.

[71] HILL 79 and CHO 80 calculated by us from λ_0, λ_+, and $d\lambda_0/d\lambda_+$.

[72] BUCHANAN 75 is calculated by us from λ_0, λ_+ and $d\lambda_0/d\lambda_+$ because their appendix A value -0.20 ± 22 assumes $\xi(t)$ constant, i.e. $\lambda_- = \lambda_+$.

[73] DONALDSON 74B gives $\xi = -0.11 \pm 0.02$ not including systematics. Above error and $d\xi(0)/d\lambda_+$ were calculated by us from λ_0 and λ_+ errors (which include systematics) and $d\lambda_0/d\lambda_+$.

[74] PEACH 73 gives $\xi(0) = -0.95 \pm 0.45$ for $\lambda_+ = \lambda_- = 0.025$. The above value is for $\lambda_- = 0$. K.Peach, private communication (1974).

[75] ALBROW 72 fit has λ_- free, gets $\lambda_- = -0.030 \pm 0.060$ or $\Lambda = +0.15^{+0.17}_{-0.11}$.

[76] CARPENTER 66 $\xi(0)$ is for $\lambda_+ = 0$. $d\xi(0)/d\lambda_+$ is from figure 9.

[77] CHIEN 70 errors are statistical only. $d\xi(0)/d\lambda_+$ from figure 4. DALLY 72 is a reanalysis of CHIEN 70. The DALLY 72 result is not compatible with assumption $\lambda_- = 0$ so not included in our fit. The nonzero λ_- value and the relatively large λ_+ value found by

DALLY 72 come mainly from a single low t bin (figures 1,2). The (f_+,ξ) correlation was ignored. We estimate from figure 2 that fixing $\lambda_- = 0$ would give $\xi(0) = -1.4 \pm 0.3$ and would add 10 to χ^2. $d\xi(0)/d\lambda_+$ is not given.

[78] BASILE 70 is incompatible with all other results. Authors suggest that efficiency estimates might be responsible.

$\xi_b = f_-/f_+$ (determined from $K^0_{\mu 3}/K^0_{e3}$)

The $K^0_{\mu 3}/K^0_{e3}$ branching ratio fixes a relationship between $\xi(0)$ and λ_+. We quote the author's $\xi(0)$ and associated λ_+ but do not average because the λ_+ values differ. The fit result and scale factor given below are not obtained from these ξ_b values. Instead they are obtained directly from the authors $K^0_{\mu 3}/K^0_{e3}$ branching ratio via the fitted $K^0_{\mu 3}/K^0_{e3}$ ratio ($\Gamma(\pi^\pm \mu^\mp \nu)/\Gamma(\pi^\pm e^\mp \nu_e)$). The parameter ξ is redundant with λ_0 below and is not put into the Meson Summary Table.

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
-0.11 ± 0.09 OUR EVALUATION		From a fit discussed in note on $K_{\ell 3}$ form factors in 1982 edition, PL **111B** (April 1982).			
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.5 ± 0.4	6700	BRANDENB...	73	HBC	BR, $\lambda_+ = 0.019 \pm 0.013$
-0.08 ± 0.25	1309	[79] EVANS	73	HLBC	BR, $\lambda_+ = 0.02$
-0.5 ± 0.5	3548	BASILE	70	OSPK	BR, $\lambda_+ = 0.02$
$+0.45 \pm 0.28$	569	BEILLIERE	69	HLBC	BR, $\lambda_+ = 0$
-0.22 ± 0.30	1309	[79] EVANS	69	HLBC	
$+0.2\ ^{+0.8}_{-1.2}$		KULYUKINA	68	CC	BR, $\lambda_+ = 0$
$+1.1 \pm 1.1$	389	ADAIR	64	HBC	BR, $\lambda_+ = 0$
$+0.66\ ^{+0.9}_{-1.3}$		LUERS	64	HBC	BR, $\lambda_+ = 0$

[79] EVANS 73 replaces EVANS 69.

$\xi_c \equiv f_-/f_+$ (determined from μ polarization in $K^0_{\mu 3}$)

The μ polarization is a measure of $\xi(t)$. No assumptions on λ_{+-} necessary, t (weighted by sensitivity to $\xi(t)$) should be specified. In λ_+, $\xi(0)$ parametrization this is $\xi(0)$ for $\lambda_+ = 0$. $d\xi/d\lambda = \xi t$. For radiative correction to μ polarization in $K^0_{\mu 3}$, see GINSBERG 73. The parameter ξ is redundant with λ_0 below and is not put into the Meson Summary Table.

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
-0.11 ± 0.09 OUR EVALUATION		From a fit discussed in note on $K_{\ell 3}$ form factors in 1982 edition, PL **111B** (April 1982).			
$+0.178 \pm 0.105$	207k	[80] CLARK	77	SPEC	POL, $d\xi(0)/d\lambda_+ = +0.68$
-0.385 ± 0.105	2.2M	[81] SANDWEISS	73	CNTR	POL, $d\xi(0)/d\lambda_+ = -6$
$-1.81\ ^{+0.50}_{-0.26}$		[82] LONGO	69	CNTR	POL, t=3.3
• • • We do not use the following data for averages, fits, limits, etc. • • •					
-1.6 ± 0.5	638	[83] ABRAMS	68B	OSPK	Polarization
-1.2 ± 0.5	2608	[83] AUERBACH	66B	OSPK	Polarization

[80] CLARK 77 $t = +3.80$, $d\xi(0)/d\lambda_+ = \xi(t)t = 0.178 \times 3.80 = +0.68$.

[81] SANDWEISS 73 is for $\lambda_+ = 0$ and $t = 0$.

[82] LONGO 69 $t = 3.3$ calculated from $d\xi(0)/d\lambda_+ = -6.0$ (table 1) divided by $\xi = -1.81$.

[83] t value not given.

Im(ξ) in $K^0_{\mu 3}$ DECAY (from transverse μ pol.)

Test of T reversal invariance.

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
−0.007±0.026 OUR AVERAGE					
0.009±0.030	12M	MORSE	80	CNTR	Polarization
0.35 ±0.30	207k	[84] CLARK	77	SPEC	POL, t=0
−0.085±0.064	2.2M	[85] SANDWEISS	73	CNTR	POL, t=0
−0.02 ±0.08		LONGO	69	CNTR	POL, t=3.3
−0.2 ±0.6		ABRAMS	68B	OSPK	Polarization
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.012±0.026		SCHMIDT	79	CNTR	Repl. by MORSE 80

[84] CLARK 77 value has additional $\xi(0)$ dependence $+0.21\,\mathrm{Re}[\xi(0)]$.

[85] SANDWEISS 73 value corrected from value quoted in their paper due to new value of Re(ξ). See footnote 4 of SCHMIDT 79.

λ_+ (LINEAR ENERGY DEPENDENCE OF f_+ IN $K^0_{\mu 3}$ DECAY)

See also the corresponding entries and notes in section "$\xi_A = f_-/f_+$" above and section "λ_0 (LINEAR ENERGY DEPENDENCE OF f_0 IN $K^0_{\mu 3}$ DECAY)" below. For radiative correction of $K^0_{\mu 3}$ Dalitz plot see GINSBERG 70 and BECHERRAWY 70.

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.034 ±0.005 OUR EVALUATION		From a fit discussed in note on $K_{\ell 3}$ form factors in 1982 edition, PL **111B** (April 1982).			
0.0427±0.0044	150k	BIRULEV	81	SPEC	DP
0.028 ±0.010	14k	CHO	80	HBC	DP
0.028 ±0.011	16k	HILL	79	STRC	DP
0.046 ±0.030	32k	BUCHANAN	75	SPEC	DP
0.030 ±0.003	1.6M	DONALDSON	74B	SPEC	DP
0.085 ±0.015	9086	ALBROW	72	ASPK	DP
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.0337±0.0033	129k	DZHORD...	77	SPEC	Repl. by BIRULEV 81
0.046 ±0.008	82k	ALBRECHT	74	WIRE	Repl. by BIRULEV 81
0.11 ±0.04	16k	DALLY	72	ASPK	DP
0.07 ±0.02	16k	CHIEN	70	ASPK	Repl. by DALLY 72

λ_0 (LINEAR ENERGY DEPENDENCE OF f_0 IN $K^0_{\mu 3}$ DECAY)

Wherever possible, we have converted the above values of $\xi(0)$ into values of λ_0 using the associated λ_+^μ and $d\xi(0)/d\lambda_+$.

VALUE	$d\lambda_0/d\lambda_+$	EVTS	DOCUMENT ID		TECN	COMMENT
0.025 ±0.006 OUR EVALUATION			From a fit discussed in note on $K_{\ell 3}$ form factors in 1982 edition, PL **111B** (April 1982).			
0.0341±0.0067	unknown	150k	[86] BIRULEV	81	SPEC	DP
+0.050 ±0.008	−0.11	14k	CHO	80	HBC	DP
+0.039 ±0.010	−0.67	16k	HILL	79	STRC	DP
+0.047 ±0.009	1.06	207k	[87] CLARK	77	SPEC	POL
+0.025 ±0.019	+0.5	32k	[88] BUCHANAN	75	SPEC	DP
+0.019 ±0.004	−0.47	1.6M	[89] DONALDSON	74B	SPEC	DP

-0.060	± 0.038	-0.71	1385	[90] PEACH	73	HLBC	DP
-0.018	± 0.009	$+0.49$	2.2M	[87] SANDWEISS	73	CNTR	POL
-0.043	± 0.052	-1.39	9086	[91] ALBROW	72	ASPK	DP
-0.140	$^{+0.043}_{-0.022}$	$+0.49$		[87] LONGO	69	CNTR	POL
$+0.08$	± 0.07	-0.54	1371	[87] CARPENTER	66	OSPK	DP

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

0.041	± 0.008		14k	[92] CHO	80	HBC	BR, λ_+=0.028
$+0.0485$	± 0.0076		47k	DZHORD...	77	SPEC	In BIRULEV 81
$+0.024$	± 0.011		82k	ALBRECHT	74	WIRE	In BIRULEV 81
$+0.06$	± 0.03		6700	[93] BRANDENB...	73	HBC	BR, λ_+=0.019 ± 0.013
-0.067	± 0.227	unknown	16k	[94] DALLY	72	ASPK	DP
-0.333	± 0.034	$+1.$	3140	[95] BASILE	70	OSPK	DP

[86] BIRULEV 81 gives $d\lambda_0/d\lambda_+ = -1.5$, giving an unreasonably narrow error ellipse which dominates all other results. We use $d\lambda_0/d\lambda_+ = 0$.

[87] λ_0 value is for $\lambda_+ = 0.03$ calculated by us from $\xi(0)$ and $d\xi(0)/d\lambda_+$.

[88] BUCHANAN 75 value is from their appendix A and uses only $K_{\mu 3}$ data. $d\lambda_0/d\lambda_+$ was obtained by private communication, C.Buchanan, 1976.

[89] DONALDSON 74B $d\lambda_0/d\lambda_+$ obtained from figure 18.

[90] PEACH 73 assumes $\lambda_+ = 0.025$. Calculated by us from $\xi(0)$ and $d\xi(0)/d\lambda_+$.

[91] ALBROW 72 λ_0 is calculated by us from ξ_A, λ_+ and $d\xi(0)/d\lambda_+$. They give $\lambda_0 = -0.043 \pm 0.039$ for $\lambda_- = 0$. We use our larger calculated error.

[92] CHO 80 BR result not independent of their Dalitz plot result.

[93] Fit for λ_0 does not include this value but instead includes the $K_{\mu 3}/K_{e3}$ result from this experiment.

[94] DALLY 72 gives $f_0 = 1.20 \pm 0.35$, $\lambda_0 = -0.080 \pm 0.272$, $\lambda_0{}' = -0.006 \pm 0.045$, but with a different definition of λ_0. Our quoted λ_0 is his λ_0/f_0. We cannot calculate true λ_0 error without his (λ_0,f_0) correlations. See also note on DALLY 72 in section ξ_A.

[95] BASILE 70 λ_0 is for $\lambda_+ = 0$. Calculated by us from ξ_A with $d\xi(0)/d\lambda_+ = 0$. BASILE 70 is incompatible with all other results. Authors suggest that efficiency estimates might be responsible.

$|f_S/f_+|$ FOR K^0_{e3} DECAY

Ratio of scalar to f_+ couplings.

VALUE	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<0.04	68	25k	BLUMENTHAL 75		SPEC	

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

<0.095	95	18k	HILL	78	STRC	
<0.07	68	48k	BIRULEV	76	SPEC	See also BIRULEV 81
<0.19	95	5600	ALBROW	73	ASPK	
<0.15	68		KULYUKINA	67	CC	

$|f_T/f_+|$ FOR K^0_{e3} DECAY

Ratio of tensor to f_+ couplings.

VALUE	CL%	EVTS	DOCUMENT ID	TECN	COMMENT
<0.23	68	25k	BLUMENTHAL 75	SPEC	

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

<0.40	95	18k	HILL	78	STRC	
<0.34	68	48k	BIRULEV	76	SPEC	See also BIRULEV 81
<1.0	95	5600	ALBROW	73	ASPK	
<1.0	68		KULYUKINA	67	CC	

$|f_T/f_+|$ FOR $K^0_{\mu 3}$ DECAY

Ratio of tensor to f_+ couplings.

VALUE	*DOCUMENT ID*		*TECN*
0.12±0.12	BIRULEV	81	SPEC

α_{K^*} DECAY FORM FACTOR FOR $K_L \to e^+ e^- \gamma$

α_{K^*} is the constant in the model of BERGSTROM 83 which measures the relative strength of the vector-vector transition $K_L \to K^* \gamma$ with $K^* \to \rho, \omega, \phi \to \gamma^*$ and the pseudoscalar-pseudoscalar transition $K_L \to \pi, \eta, \eta' \to \gamma\gamma^*$.

VALUE	*DOCUMENT ID*		*TECN*
−0.28 ±0.08 OUR AVERAGE			
-0.28 ± 0.13	BARR	90B	NA31
$-0.280^{+0.099}_{-0.090}$	OHL	90B	B845

DECAY FORM FACTORS FOR $K^0_L \to \pi^\pm \pi^0 e^\mp \nu_e$

Given in MAKOFF 93.