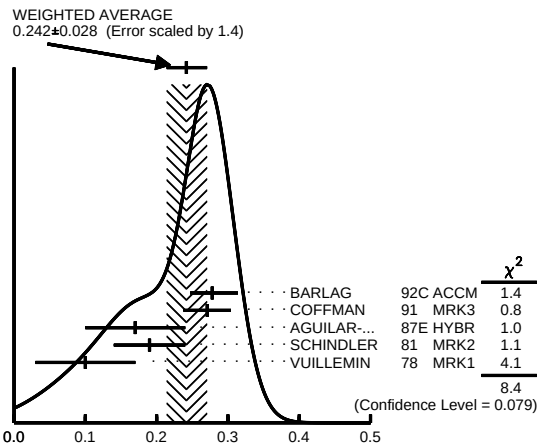
$\Gamma(K^-\text{anything})/\Gamma_{\text{total}}$ Γ_2/Γ

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.242±0.028 OUR AVERAGE		Error includes scale factor of 1.4. See the ideogram below.			
$0.278^{+0.036}_{-0.031}$		[9] BARLAG	92C	ACCM	π^- Cu 230 GeV
0.271±0.023±0.024		COFFMAN	91	MRK3	e^+e^- 3.77 GeV
0.17 ±0.07		AGUILAR-...	87E	HYBR	πp, pp 360, 400 GeV
0.19 ±0.05	26	SCHINDLER	81	MRK2	e^+e^- 3.771 GeV
0.10 ±0.07	3	VUILLEMIN	78	MRK1	e^+e^- 3.772 GeV
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$0.16^{+0.08}_{-0.07}$		AGUILAR-...	86B	HYBR	See AGUILAR-BENITEZ 87E

[9] BARLAG 92C computes the branching fraction using topological normalization.



$[\Gamma(\overline{K}^0\text{anything}) + \Gamma(K^0\text{anything})]/\Gamma_{\text{total}}$ Γ_3/Γ

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.59 ±0.07 OUR AVERAGE					
0.612±0.065±0.043		COFFMAN	91	MRK3	e^+e^- 3.77 GeV
0.52 ±0.18	15	SCHINDLER	81	MRK2	e^+e^- 3.771 GeV
0.39 ±0.29	3	VUILLEMIN	78	MRK1	e^+e^- 3.772 GeV

$\Gamma(K^+\text{anything})/\Gamma_{\text{total}}$ Γ_4/Γ

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.058±0.014 OUR AVERAGE					
0.055±0.013±0.009		COFFMAN	91	MRK3	e^+e^- 3.77 GeV
$0.08^{+0.06}_{-0.05}$		AGUILAR-...	87E	HYBR	πp, pp 360, 400 GeV
0.06 ±0.04	12	SCHINDLER	81	MRK2	e^+e^- 3.771 GeV
0.06 ±0.06	2	VUILLEMIN	78	MRK1	e^+e^- 3.772 GeV

D^+ and $D^0 \to$ (η anything) / (total D^+ and D^0)

If measured at the $\psi(3770)$, this quantity is a weighted average of D^+ (44%) and D^0 (56%) branching fractions. Only the experiment at $E_{\text{cm}} = 3.77$ GeV is used.

VALUE	DOCUMENT ID		TECN	COMMENT
<0.13	PARTRIDGE	81	CBAL	e^+e^- 3.77 GeV
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<0.02	[10] BRANDELIK	79	DASP	e^+e^- 4.03 GeV

[10] The BRANDELIK 79 result is based on the absence of an η signal at $E_{\text{cm}} = 4.03$ GeV. PARTRIDGE 81 observes a substantially higher η cross section at 4.03 GeV.

$\Gamma(c/\overline{c} \to \mu^+\text{anything})/\Gamma(c/\overline{c} \to \text{anything})$

This is the average branching ratio for charm $\to \mu^+$X. The mixture of charmed particles is unknown and may actually contain states other than D mesons.

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
$0.081^{+0.010}_{-0.009}$ OUR AVERAGE					
$0.086\pm0.017^{+0.008}_{-0.007}$	69	[11] ALBRECHT	92F	ARG	$e^+e^- \approx 10$ GeV
0.078±0.009±0.012		ONG	88	MRK2	e^+e^- 29 GeV
0.078±0.015±0.02		BARTEL	87	JADE	e^+e^- 34.6 GeV
$0.082\pm0.012^{+0.02}_{-0.01}$		ALTHOFF	84G	TASS	e^+e^- 34.5 GeV
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.089±0.018±0.025		BARTEL	85J	JADE	See BARTEL 87

[11] ALBRECHT 92F uses the excess of right-sign over wrong-sign leptons in a sample of events tagged by fully reconstructed $D^*(2010)^+ \to D^0\pi^+$ decays.

$\Gamma(c/\overline{c} \to e^+e^-\text{anything})/\Gamma(c/\overline{c} \to \text{anything})$

VALUE	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •						
$<2.2\times10^{-3}$	90	0.1	[12] HAAS	88	CLEO	e^+e^- 10 GeV

[12] The normalization uses a continuum charm production estimate.

$\Gamma(c/\overline{c} \to e^+\mu^-\text{anything})/\Gamma(c/\overline{c} \to \text{anything})$

VALUE	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •						
$<3.7\times10^{-3}$	90	0.2	[13] HAAS	88	CLEO	e^+e^- 10 GeV

[13] The normalization uses a continuum charm production estimate.

$\Gamma(c/\overline{c} \to \mu^+\mu^-\text{anything})/\Gamma(c/\overline{c} \to \text{anything})$

VALUE	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •						
<0.018	90	0.3	[14] HAAS	88	CLEO	e^+e^- 10 GeV
<0.007	95		[15] ALTHOFF	84G	TASS	e^+e^- 34.5 GeV

[14] The normalization uses a continuum charm production estimate.

[15] Average BR for charm $\to \mu^+\mu^-$X. The mixture of charmed particles is unknown and may actually contain states other than D mesons.

Leptonic and semileptonic modes

$\Gamma(\mu^+\nu_\mu)/\Gamma_{\text{total}}$ Γ_8/Γ

See the "Note on Pseudoscalar-Meson Decay Constants" in the $\pi^\pm$ Listings for the limit inferred on the D^+ decay constant from the limit here on $\Gamma(\mu^+\nu_\mu)/\Gamma_{\text{total}}$.

VALUE	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<0.00072	90		ADLER	88B	MRK3	e^+e^- 3.77 GeV
• • • We do not use the following data for averages, fits, limits, etc. • • •						
<0.02	90	0	[16] AUBERT	83	SPEC	μ^+ Fe, 250 GeV

[16] AUBERT 83 obtains an upper limit 0.014 assuming the final state contains equal amounts of (D^+,D^-), $(D^+,\overline{D}^0)$, (D^-,D^0), and $(D^0,\overline{D}^0)$. We quote the limit they get under more general assumptions.

$\Gamma(\overline{K}^0\text{"}e^+\text{"}\nu_e)/\Gamma_{\text{total}}$ Γ_9/Γ

We average our $\overline{K}^0e^+\nu_e$ and $\overline{K}^0\mu^+\nu_\mu$ branching fractions, multiplying the latter by a phase-space factor of 1.03 to be able to use it with the $\overline{K}^0e^+\nu_e$ fraction.

VALUE	DOCUMENT ID		COMMENT
0.067±0.008 OUR AVERAGE			
0.066±0.009	PDG	94	Our $\Gamma(\overline{K}^0e^+\nu_e)/\Gamma_{\text{total}}$
$0.072^{+0.031}_{-0.021}$	PDG	94	1.03 × our $\Gamma(\overline{K}^0\mu^+\nu_\mu)/\Gamma_{\text{total}}$

$\Gamma(\overline{K}^0e^+\nu_e)/\Gamma_{\text{total}}$ Γ_{10}/Γ

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.066±0.009 OUR FIT					
$\mathbf{0.06\ ^{+0.022}_{-0.013}\pm0.007}$	13	BAI	91	MRK3	$e^+e^- \approx 3.77$ GeV

$\Gamma(\overline{K}^0e^+\nu_e)/\Gamma(\overline{K}^0\pi^+)$ Γ_{10}/Γ_{34}

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
2.39±0.33 OUR FIT					
2.60±0.35±0.26	186	[17] BEAN	93C	CLEO	$e^+e^- \approx \Upsilon(4S)$

[17] BEAN 93C uses $\overline{K}^0\mu^+\nu_\mu$ as well as $\overline{K}^0e^+\nu_e$ events and makes a small phase-space adjustment to the number of the μ^+ events to use them as e^+ events.

$\Gamma(\overline{K}^0e^+\nu_e)/\Gamma(K^-\pi^+\pi^+)$ Γ_{10}/Γ_{35}

VALUE	DOCUMENT ID		TECN	COMMENT
0.72±0.10 OUR FIT				
0.66±0.09±0.14	ANJOS	91C	E691	γ Be 80–240 GeV

$\Gamma(\overline{K}^0\mu^+\nu_\mu)/\Gamma_{\text{total}}$ Γ_{11}/Γ

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
$\mathbf{0.07\ ^{+0.028}_{-0.016}\pm0.012}$	14	BAI	91	MRK3	$e^+e^- \approx 3.77$ GeV

$\Gamma(\overline{K}^0\mu^+\nu_\mu)/\Gamma(\mu^+\text{anything})$ Γ_{11}/Γ_6

VALUE	EVTS	DOCUMENT ID		COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.76±0.06	84	[18] AOKI	88	π^- emulsion

[18] From topological branching ratios in emulsion with an identified muon.

$\Gamma(K^-\pi^+e^+\nu_e)/\Gamma_{\text{total}}$ Γ_{13}/Γ

VALUE	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
$0.042^{+0.009}_{-0.007}$ OUR FIT						
$\mathbf{0.035^{+0.012}_{-0.007}\pm0.004}$		14	[19] BAI	91	MRK3	$e^+e^- \approx 3.77$ GeV
• • • We do not use the following data for averages, fits, limits, etc. • • •						
<0.057	90		[20] AGUILAR-...	87F	HYBR	πp, pp 360, 400 GeV

[19] BAI 91 finds that a fraction $0.79^{+0.15+0.09}_{-0.17-0.03}$ of combined D^+ and D^0 decays to $\overline{K}\pi e^+\nu_e$ (24 events) are $\overline{K}^*(892)e^+\nu_e$.

[20] AGUILAR-BENITEZ 87F computes the branching fraction using topological normalization.