CHARMED MESONS
($C = \pm1$)

$D^+ = c\overline{d}$, $D^0 = c\overline{u}$, $\overline{D}^0 = \overline{c}\,u$, $D^- = \overline{c}\,d$, similarly for D^*'s

$D^\pm$

$I(J^P) = \frac{1}{2}(0^-)$

Mass $m = 1869.3 \pm 0.5$ MeV (S = 1.1)
Mean life $\tau = (1051 \pm 13) \times 10^{-15}$ s
$c\tau = 315\ \mu$m

c-quark decays

$\Gamma(c \to \ell^+ \text{anything})/\Gamma(c \to \text{anything}) = 0.096 \pm 0.004$ [nn]
$\Gamma(c \to D^*(2010)^+ \text{anything})/\Gamma(c \to \text{anything}) = 0.255 \pm 0.017$

CP-violation decay-rate asymmetries

$A_{CP}(K^0_S \pi^\pm) = -0.016 \pm 0.017$
$A_{CP}(K^0_S K^\pm) = 0.07 \pm 0.06$
$A_{CP}(K^+ K^- \pi^\pm) = 0.002 \pm 0.011$
$A_{CP}(K^\pm K^{*0}) = -0.02 \pm 0.05$
$A_{CP}(\phi \pi^\pm) = -0.014 \pm 0.033$
$A_{CP}(\pi^+ \pi^- \pi^\pm) = -0.02 \pm 0.04$

$D^+ \to \overline{K}^*(892)^0 \ell^+ \nu_\ell$ form factors

$r_v = 1.82 \pm 0.09$
$r_2 = 0.78 \pm 0.07$
$r_3 = 0.0 \pm 0.4$
$\Gamma_L/\Gamma_T = 1.14 \pm 0.08$
$\Gamma_+/\Gamma_- = 0.21 \pm 0.04$ (S = 1.3)

D^- modes are charge conjugates of the modes below.

D^+ DECAY MODES	Fraction (Γ_i/Γ)	Scale factor/ Confidence level	p (MeV/c)
Inclusive modes			
e^+ anything	(17.2 ± 1.9) %		–
K^- anything	(24.2 ± 2.8) %	S=1.4	–
$\overline{K}^0$ anything + K^0 anything	(59 ± 7) %		–
K^+ anything	(5.8 ± 1.4) %		–
η anything	[oo] < 13 %	CL=90%	–
ϕ anything	< 1.8 %	CL=90%	–
ϕe^+ anything	< 1.6 %	CL=90%	–

Leptonic and semileptonic modes

$\mu^+ \nu_\mu$		$(8 \ {}^{+17}_{-\ 5}) \times 10^{-4}$		932
$\overline{K}^0 \ell^+ \nu_\ell$	[pp]	(6.7 ± 0.8) %		–
$\overline{K}^0 e^+ \nu_e$		(6.6 ± 0.9) %		868
$\overline{K}^0 \mu^+ \nu_\mu$		$(7.0 \ {}^{+3.0}_{-2.0})$ %		865
$K^- \pi^+ e^+ \nu_e$		$(4.1 \ {}^{+0.9}_{-0.7})$ %		863
$\overline{K}^*(892)^0 e^+ \nu_e$ $\times$ B($\overline{K}^{*0} \to K^- \pi^+$)		(3.2 ± 0.33) %		720
$K^- \pi^+ e^+ \nu_e$ nonresonant		$< 7 \times 10^{-3}$	CL=90%	863
$K^- \pi^+ \mu^+ \nu_\mu$		(3.2 ± 0.4) %	S=1.1	851
$\overline{K}^*(892)^0 \mu^+ \nu_\mu$ $\times$ B($\overline{K}^{*0} \to K^- \pi^+$)		(3.0 ± 0.4) %		715
$K^- \pi^+ \mu^+ \nu_\mu$ nonresonant		$(2.7 \pm 1.1) \times 10^{-3}$		851
$(\overline{K}^*(892)\pi)^0 e^+ \nu_e$		< 1.2 %	CL=90%	714
$(\overline{K}\pi\pi)^0 e^+ \nu_e$ non-$\overline{K}^*(892)$		$< 9 \times 10^{-3}$	CL=90%	846
$K^- \pi^+ \pi^0 \mu^+ \nu_\mu$		$< 1.4 \times 10^{-3}$	CL=90%	825
$\pi^0 \ell^+ \nu_\ell$	[qq]	$(3.1 \pm 1.5) \times 10^{-3}$		930

Fractions of some of the following modes with resonances have already appeared above as submodes of particular charged-particle modes.

$\overline{K}^*(892)^0 \ell^+ \nu_\ell$	[pp]	(4.8 ± 0.4) %		–
$\overline{K}^*(892)^0 e^+ \nu_e$		(4.8 ± 0.5) %		720
$\overline{K}^*(892)^0 \mu^+ \nu_\mu$		(4.5 ± 0.6) %	S=1.1	715
$\overline{K}_1(1270)^0 \mu^+ \nu_\mu$		< 3.5 %	CL=95%	493
$\overline{K}_2^*(1430)^0 \mu^+ \nu_\mu$		$< 8 \times 10^{-3}$	CL=95%	374
$\rho^0 e^+ \nu_e$		$(2.2 \pm 0.8) \times 10^{-3}$		776
$\rho^0 \mu^+ \nu_\mu$		$(2.7 \pm 0.7) \times 10^{-3}$		772
$\phi e^+ \nu_e$		< 2.09 %	CL=90%	657
$\phi \mu^+ \nu_\mu$		< 3.72 %	CL=90%	651
$\eta \ell^+ \nu_\ell$		$< 5 \times 10^{-3}$	CL=90%	–
$\eta'(958) \mu^+ \nu_\mu$		$< 9 \times 10^{-3}$	CL=90%	684

Hadronic modes with a $\overline{K}$ or $\overline{K}K\overline{K}$

$\overline{K}^0 \pi^+$		(2.77 ± 0.18) %		862
$K^- \pi^+ \pi^+$	[rr]	(9.1 ± 0.6) %		845
$\overline{K}^*(892)^0 \pi^+$ $\times$ B($\overline{K}^{*0} \to K^- \pi^+$)		(1.28 ± 0.13) %		712
$\overline{K}_0^*(1430)^0 \pi^+$ $\times$ B($\overline{K}_0^*(1430)^0 \to K^- \pi^+$)		(2.3 ± 0.3) %		368
$\overline{K}^*(1680)^0 \pi^+$ $\times$ B($\overline{K}^*(1680)^0 \to K^- \pi^+$)		$(3.7 \pm 0.8) \times 10^{-3}$		65
$K^- \pi^+ \pi^+$ nonresonant		(8.6 ± 0.8) %		845

$\overline{K}^0 \pi^+ \pi^0$	[rr]	$(9.7 \pm 3.0)\%$	S=1.1	845
$\quad \overline{K}^0 \rho^+$		$(6.6 \pm 2.5)\%$		680
$\quad \overline{K}^*(892)^0 \pi^+$		$(6.4 \pm 0.6) \times 10^{-3}$		712
$\qquad \times\ \mathrm{B}(\overline{K}^{*0} \to \overline{K}^0 \pi^0)$				
$\quad \overline{K}^0 \pi^+ \pi^0$ nonresonant		$(1.3 \pm 1.1)\%$		845
$K^- \pi^+ \pi^+ \pi^0$	[rr]	$(6.4 \pm 1.1)\%$		816
$\quad \overline{K}^*(892)^0 \rho^+$ total		$(1.4 \pm 0.9)\%$		423
$\qquad \times\ \mathrm{B}(\overline{K}^{*0} \to K^- \pi^+)$				
$\quad \overline{K}_1(1400)^0 \pi^+$		$(2.1 \pm 0.5)\%$		390
$\qquad \times\ \mathrm{B}(\overline{K}_1(1400)^0 \to K^- \pi^+ \pi^0)$				
$\quad K^- \rho^+ \pi^+$ total		$(3.1 \pm 1.1)\%$		616
$\qquad K^- \rho^+ \pi^+$ 3-body		$(1.1 \pm 0.4)\%$		616
$\quad \overline{K}^*(892)^0 \pi^+ \pi^0$ total		$(4.5 \pm 0.9)\%$		687
$\qquad \times\ \mathrm{B}(\overline{K}^{*0} \to K^- \pi^+)$				
$\qquad \overline{K}^*(892)^0 \pi^+ \pi^0$ 3-body		$(2.8 \pm 0.9)\%$		687
$\qquad\quad \times\ \mathrm{B}(\overline{K}^{*0} \to K^- \pi^+)$				
$\quad K^*(892)^- \pi^+ \pi^+$ 3-body		$(7 \pm 3) \times 10^{-3}$		688
$\qquad \times\ \mathrm{B}(K^{*-} \to K^- \pi^0)$				
$\quad K^- \pi^+ \pi^+ \pi^0$ nonresonant	[ss]	$(1.2 \pm 0.6)\%$		816
$\overline{K}^0 \pi^+ \pi^+ \pi^-$	[rr]	$(7.0 \pm 0.9)\%$		814
$\quad \overline{K}^0 a_1(1260)^+$		$(4.0 \pm 0.9)\%$		328
$\qquad \times\ \mathrm{B}(a_1(1260)^+ \to \pi^+ \pi^+ \pi^-)$				
$\quad \overline{K}_1(1400)^0 \pi^+$		$(2.1 \pm 0.5)\%$		390
$\qquad \times\ \mathrm{B}(\overline{K}_1(1400)^0 \to \overline{K}^0 \pi^+ \pi^-)$				
$\quad K^*(892)^- \pi^+ \pi^+$ 3-body		$(1.4 \pm 0.6)\%$		688
$\qquad \times\ \mathrm{B}(K^{*-} \to \overline{K}^0 \pi^-)$				
$\quad \overline{K}^0 \rho^0 \pi^+$ total		$(4.2 \pm 0.9)\%$		614
$\qquad \overline{K}^0 \rho^0 \pi^+$ 3-body		$(5 \pm 5) \times 10^{-3}$		614
$\quad \overline{K}^0 \pi^+ \pi^+ \pi^-$ nonresonant		$(8 \pm 4) \times 10^{-3}$		814
$K^- \pi^+ \pi^+ \pi^+ \pi^-$	[rr]	$(7.3 \pm 1.0) \times 10^{-3}$		772
$\quad \overline{K}^*(892)^0 \pi^+ \pi^+ \pi^-$		$(5.5 \pm 2.3) \times 10^{-3}$		642
$\qquad \times\ \mathrm{B}(\overline{K}^{*0} \to K^- \pi^+)$				
$\qquad \overline{K}^*(892)^0 \rho^0 \pi^+$		$(1.9 {}^{+1.1}_{-1.0}) \times 10^{-3}$		242
$\qquad\quad \times\ \mathrm{B}(\overline{K}^{*0} \to K^- \pi^+)$				
$\qquad \overline{K}^*(892)^0 \pi^+ \pi^+ \pi^-$ no-ρ		$(2.9 \pm 1.1) \times 10^{-3}$		642
$\qquad\quad \times\ \mathrm{B}(\overline{K}^{*0} \to K^- \pi^+)$				
$\quad K^- \rho^0 \pi^+ \pi^+$		$(3.1 \pm 1.0) \times 10^{-3}$		529
$\quad K^- \pi^+ \pi^+ \pi^+ \pi^-$ nonresonant		$< 2.4 \times 10^{-3}$	CL=90%	772
$\overline{K}^0 \overline{K}^0 K^+$		$(1.8 \pm 0.8)\%$		545
$K^+ K^- \overline{K}^0 \pi^+$		$(5.4 \pm 1.4) \times 10^{-4}$		435

Fractions of some of the following modes with resonances have already appeared above as submodes of particular charged-particle modes.

$\overline{K}^0 \rho^+$		(6.6 ± 2.5) %			680
$\overline{K}^0 a_1(1260)^+$		(8.1 ± 1.7) %			328
$\overline{K}^0 a_2(1320)^+$		< 3	$\times 10^{-3}$	CL=90%	199
$\overline{K}^*(892)^0 \pi^+$		(1.92 ± 0.19) %			712
$\overline{K}^*(892)^0 \rho^+$ total	[ss]	(2.1 ± 1.4) %			423
$\overline{K}^*(892)^0 \rho^+$ S-wave	[ss]	(1.7 ± 1.6) %			423
$\overline{K}^*(892)^0 \rho^+$ P-wave		< 1	$\times 10^{-3}$	CL=90%	423
$\overline{K}^*(892)^0 \rho^+$ D-wave		(10 ± 7)	$\times 10^{-3}$		423
$\overline{K}^*(892)^0 \rho^+$ D-wave longitudinal		< 7	$\times 10^{-3}$	CL=90%	423
$\overline{K}_1(1270)^0 \pi^+$		< 7	$\times 10^{-3}$	CL=90%	487
$\overline{K}_1(1400)^0 \pi^+$		(4.9 ± 1.2) %			390
$\overline{K}_0^*(1430)^0 \pi^+$		(3.7 ± 0.4) %			368
$\overline{K}^*(1680)^0 \pi^+$		(1.45 ± 0.31) %			65
$\overline{K}^*(892)^0 \pi^+ \pi^0$ total		(6.7 ± 1.4) %			687
$\overline{K}^*(892)^0 \pi^+ \pi^0$ 3-body	[ss]	(4.2 ± 1.4) %			687
$K^*(892)^- \pi^+ \pi^+$ 3-body		(2.1 ± 0.9) %			688
$K^- \rho^+ \pi^+$ total		(3.1 ± 1.1) %			616
$K^- \rho^+ \pi^+$ 3-body		(1.1 ± 0.4) %			616
$\overline{K}^0 \rho^0 \pi^+$ total		(4.2 ± 0.9) %		CL=90%	614
$\overline{K}^0 \rho^0 \pi^+$ 3-body		(5 ± 5)	$\times 10^{-3}$		614
$\overline{K}^*(892)^0 \pi^+ \pi^+ \pi^-$		(8.2 ± 3.4)	$\times 10^{-3}$	S=1.7	642
$\overline{K}^*(892)^0 \rho^0 \pi^+$		$(2.9 {}^{+1.7}_{-1.5})$	$\times 10^{-3}$	S=1.8	242
$\overline{K}^*(892)^0 \pi^+ \pi^+ \pi^-$ no-ρ		(4.3 ± 1.7)	$\times 10^{-3}$		642
$K^- \rho^0 \pi^+ \pi^+$		(3.1 ± 1.0)	$\times 10^{-3}$		529

Pionic modes

$\pi^+ \pi^0$		(2.5 ± 0.7)	$\times 10^{-3}$		925
$\pi^+ \pi^+ \pi^-$		(3.1 ± 0.4)	$\times 10^{-3}$	S=1.5	908
$\sigma \pi^+$		(2.1 ± 0.5)	$\times 10^{-3}$		–
$\rho^0 \pi^+$		(1.04 ± 0.18)	$\times 10^{-3}$		769
$f_0(980) \pi^+ \times B(f_0 \to \pi^+ \pi^-)$	[tt]	(1.9 ± 0.5)	$\times 10^{-4}$		669
$f_2(1270) \pi^+ \times B(f_2 \to \pi^+ \pi^-)$		(6.0 ± 1.1)	$\times 10^{-4}$		485
$\pi^+ \pi^+ \pi^-$ nonresonant		(2.4 ± 2.1)	$\times 10^{-4}$		908
$\pi^+ \pi^+ \pi^- \pi^0$		—			882
$\eta \pi^+ \times B(\eta \to \pi^+ \pi^- \pi^0)$		(6.9 ± 1.4)	$\times 10^{-4}$		848
$\omega \pi^+ \times B(\omega \to \pi^+ \pi^- \pi^0)$		< 6	$\times 10^{-3}$	CL=90%	764
$\pi^+ \pi^+ \pi^+ \pi^- \pi^-$		(2.1 ± 0.4)	$\times 10^{-3}$		845

Fractions of some of the following modes with resonances have already appeared above as submodes of particular charged-particle modes.

$\eta \pi^+$		$(3.0 \pm 0.6) \times 10^{-3}$			848
$\rho^0 \pi^+$		$(1.04 \pm 0.18) \times 10^{-3}$			769
$\omega \pi^+$		$< 7 \times 10^{-3}$	CL=90%		764
$\eta \rho^+$		$< 7 \times 10^{-3}$	CL=90%		658
$\eta'(958) \pi^+$		$(5.0 \pm 1.0) \times 10^{-3}$			680
$\eta'(958) \rho^+$		$< 5 \times 10^{-3}$	CL=90%		355
$f_2(1270) \pi^+$		$(1.06 \pm 0.20) \times 10^{-3}$			485

Hadronic modes with a $K\overline{K}$ pair

$K^+ \overline{K}^0$		$(5.8 \pm 0.6) \times 10^{-3}$		S=1.2	792
$K^+ K^- \pi^+$	[rr]	$(8.8 \pm 0.8) \times 10^{-3}$			744
$\phi \pi^+ \times$ B($\phi \rightarrow K^+ K^-$)		$(3.0 \pm 0.3) \times 10^{-3}$			647
$K^+ \overline{K}^*(892)^0 \times$ B($\overline{K}^{*0} \rightarrow K^- \pi^+$)		$(2.8 \pm 0.4) \times 10^{-3}$			610
$K^+ K^- \pi^+$ nonresonant		$(4.5 \pm 0.9) \times 10^{-3}$			744
$K^0 \overline{K}^0 \pi^+$		—			741
$K^*(892)^+ \overline{K}^0 \times$ B($K^{*+} \rightarrow K^0 \pi^+$)		(2.1 ± 0.9) %			611
$K^+ K^- \pi^+ \pi^0$		—			682
$\phi \pi^+ \pi^0 \times$ B($\phi \rightarrow K^+ K^-$)		(1.1 ± 0.5) %			619
$\phi \rho^+ \times$ B($\phi \rightarrow K^+ K^-$)		$< 7 \times 10^{-3}$	CL=90%		268
$K^+ K^- \pi^+ \pi^0$ non-ϕ		$(1.5 ^{+0.7}_{-0.6})$ %			682
$K^+ \overline{K}^0 \pi^+ \pi^-$		$(4.0 \pm 0.7) \times 10^{-3}$			678
$K^0 K^- \pi^+ \pi^+$		$(5.4 \pm 0.8) \times 10^{-3}$			678
$K^*(892)^+ \overline{K}^*(892)^0 \times$ B^2($K^{*+} \rightarrow K^0 \pi^+$)		(1.2 ± 0.5) %			273
$K^0 K^- \pi^+ \pi^+$ non-$K^{*+} \overline{K}^{*0}$		$< 7.9 \times 10^{-3}$	CL=90%		678
$K^+ K^- \pi^+ \pi^+ \pi^-$		—			600
$\phi \pi^+ \pi^+ \pi^- \times$ B($\phi \rightarrow K^+ K^-$)		$< 1 \times 10^{-3}$	CL=90%		565
$K^+ K^- \pi^+ \pi^+ \pi^-$ nonresonant		< 3 %	CL=90%		600

Fractions of the following modes with resonances have already appeared above as submodes of particular charged-particle modes.

$\phi \pi^+$		$(6.1 \pm 0.6) \times 10^{-3}$			647
$\phi \pi^+ \pi^0$		(2.3 ± 1.0) %			619
$\phi \rho^+$		< 1.4 %	CL=90%		268
$\phi \pi^+ \pi^+ \pi^-$		$< 2 \times 10^{-3}$	CL=90%		565
$K^+ \overline{K}^*(892)^0$		$(4.2 \pm 0.5) \times 10^{-3}$			610
$K^*(892)^+ \overline{K}^0$		(3.1 ± 1.4) %			611
$K^*(892)^+ \overline{K}^*(892)^0$		(2.6 ± 1.1) %			273

Doubly Cabibbo suppressed (DC) modes, $\Delta C = 1$ weak neutral current ($C1$) modes, or Lepton Family number (LF) or Lepton number (L) violating modes

$K^+ \pi^+ \pi^-$	DC		$(6.8 \pm 1.5) \times 10^{-4}$			845
$K^+ \rho^0$	DC		$(2.5 \pm 1.2) \times 10^{-4}$			681
$K^*(892)^0 \pi^+$	DC		$(3.6 \pm 1.6) \times 10^{-4}$			712
$K^+ \pi^+ \pi^-$ nonresonant	DC		$(2.5 \pm 1.2) \times 10^{-4}$			845
$K^+ K^+ K^-$	DC		< 1.4	$\times 10^{-4}$	CL=90%	550
ϕK^+	DC		< 1.3	$\times 10^{-4}$	CL=90%	527
$\pi^+ e^+ e^-$	$C1$		< 5.2	$\times 10^{-5}$	CL=90%	929
$\pi^+ \mu^+ \mu^-$	$C1$		< 1.5	$\times 10^{-5}$	CL=90%	917
$\rho^+ \mu^+ \mu^-$	$C1$		< 5.6	$\times 10^{-4}$	CL=90%	759
$K^+ e^+ e^-$		[uu]	< 2.0	$\times 10^{-4}$	CL=90%	869
$K^+ \mu^+ \mu^-$		[uu]	< 4.4	$\times 10^{-5}$	CL=90%	856
$\pi^+ e^\pm \mu^\mp$	LF	[ff]	< 3.4	$\times 10^{-5}$	CL=90%	926
$K^+ e^\pm \mu^\mp$	LF	[ff]	< 6.8	$\times 10^{-5}$	CL=90%	866
$\pi^- e^+ e^+$	L		< 9.6	$\times 10^{-5}$	CL=90%	929
$\pi^- \mu^+ \mu^+$	L		< 1.7	$\times 10^{-5}$	CL=90%	917
$\pi^- e^+ \mu^+$	L		< 5.0	$\times 10^{-5}$	CL=90%	926
$\rho^- \mu^+ \mu^+$	L		< 5.6	$\times 10^{-4}$	CL=90%	759
$K^- e^+ e^+$	L		< 1.2	$\times 10^{-4}$	CL=90%	869
$K^- \mu^+ \mu^+$	L		< 1.2	$\times 10^{-4}$	CL=90%	856
$K^- e^+ \mu^+$	L		< 1.3	$\times 10^{-4}$	CL=90%	866
$K^*(892)^- \mu^+ \mu^+$	L		< 8.5	$\times 10^{-4}$	CL=90%	703

D^0

$$I(J^P) = \tfrac{1}{2}(0^-)$$

Mass $m = 1864.5 \pm 0.5$ MeV (S = 1.1)
$m_{D^\pm} - m_{D^0} = 4.78 \pm 0.10$ MeV (S = 1.1)
Mean life $\tau = (411.7 \pm 2.7) \times 10^{-15}$ s
$c\tau = 123.4\ \mu$m
$\left|m_{D_1^0} - m_{D_2^0}\right| < 7 \times 10^{10}\ \hbar\ \mathrm{s}^{-1}$, CL = 95% [vv]
$(\Gamma_{D_1^0} - \Gamma_{D_2^0})/\Gamma = 2y = -0.003 \pm 0.022$ (S = 1.4)
$\Gamma(K^+ \ell^- \overline{\nu}_\ell\ (\text{via}\ \overline{D}^0))/\Gamma(K^- \ell^+ \nu_\ell) < 0.005$, CL = 90%
$\Gamma\big(K^+ \pi^- (\text{via}\ \overline{D}^0)\big)/\Gamma\big(K^- \pi^+\big) < 4.1 \times 10^{-4}$, CL = 95%

CP-violation decay-rate asymmetries

$A_{CP}(K^+ K^-) = 0.005 \pm 0.016$
$A_{CP}(K^0_S K^0_S) = -0.23 \pm 0.19$
$A_{CP}(\pi^+ \pi^-) = 0.021 \pm 0.026$
$A_{CP}(\pi^0 \pi^0) = 0.00 \pm 0.05$
$A_{CP}(K^0_S \phi) = -0.03 \pm 0.09$
$A_{CP}(K^0_S \pi^0) = 0.001 \pm 0.013$
$A_{CP}(K^\pm \pi^\mp) = 0.02 \pm 0.20$
$A_{CP}(K^\mp \pi^\pm \pi^0) = -0.03 \pm 0.09$
$A_{CP}(K^\pm \pi^\mp \pi^0) = 0.09^{+0.25}_{-0.22}$

$\overline{D}^0$ modes are charge conjugates of the modes below.

D^0 DECAY MODES		Fraction (Γ_i/Γ)	Scale factor/ Confidence level	p (MeV/c)
Inclusive modes				
e^+ anything	[*ww*]	(6.87±0.28) %		–
μ^+ anything		(6.5 ±0.8) %		–
K^- anything		(53 ±4) %	S=1.3	–
$\overline{K}^0$ anything + K^0 anything		(42 ±5) %		–
K^+ anything		($3.4\ ^{+0.6}_{-0.4}$) %		–
η anything	[*oo*]	< 13 %	CL=90%	–
ϕ anything		(1.7 ±0.8) %		–
Semileptonic modes				
$K^- \ell^+ \nu_\ell$	[*pp*]	(3.43±0.15) %	S=1.2	867
$K^- e^+ \nu_e$		(3.58±0.18) %	S=1.1	867
$K^- \mu^+ \nu_\mu$		(3.19±0.17) %		863
$K^- \pi^0 e^+ \nu_e$		($1.1\ ^{+0.8}_{-0.6}$) %	S=1.6	861
$\overline{K}^0 \pi^- e^+ \nu_e$		(1.8 ±0.8) %	S=1.6	860
$\overline{K}^*(892)^- e^+ \nu_e$ $\times$ B($K^{*-} \rightarrow \overline{K}^0 \pi^-$)		(1.43±0.23) %		719
$K^- \pi^+ \pi^- \mu^+ \nu_\mu$		< 1.2 $\times 10^{-3}$	CL=90%	821
$(\overline{K}^*(892)\pi)^- \mu^+ \nu_\mu$		< 1.4 $\times 10^{-3}$	CL=90%	693
$\pi^- e^+ \nu_e$		(3.6 ±0.6) $\times 10^{-3}$		927

A fraction of the following resonance mode has already appeared above as a submode of a charged-particle mode.

$K^*(892)^- e^+ \nu_e$		(2.14±0.35) %		719

Hadronic modes with a $\overline{K}$ or $\overline{K}K\overline{K}$

$K^- \pi^+$		(3.80±0.09) %		861
$\overline{K}^0 \pi^0$		(2.28±0.22) %		860
$\overline{K}^0 \pi^+ \pi^-$	[rr]	(5.92±0.35) %	S=1.1	842
$\overline{K}^0 \rho^0$		(1.47±0.29) %		676
$\overline{K}^0 f_0(980)$ $\times$ B($f_0 \to \pi^+ \pi^-$)		(3.2 ±0.9) $\times 10^{-3}$		549
$\overline{K}^0 f_2(1270)$ $\times$ B($f_2 \to \pi^+ \pi^-$)		(2.5 ±1.0) $\times 10^{-3}$		263
$\overline{K}^0 f_0(1370)$ $\times$ B($f_0 \to \pi^+ \pi^-$)		(4.7 ±1.4) $\times 10^{-3}$		–
$K^*(892)^- \pi^+$ $\times$ B($K^{*-} \to \overline{K}^0 \pi^-$)		(4.0 ±0.4) %		711
$K_0^*(1430)^- \pi^+$ $\times$ B($K_0^*(1430)^- \to \overline{K}^0 \pi^-$)		(7.3 ±1.6) $\times 10^{-3}$		364
$K^- \pi^+ \pi^0$	[rr]	(13.1 ±0.9) %	S=1.3	844
$K^- \rho^+$		(10.2 ±0.9) %		678
$K^- \rho(1700)^+$ $\times$ B($\rho(1700)^+ \to \pi^+ \pi^0$)		(7.5 ±1.7) $\times 10^{-3}$		–
$K^*(892)^- \pi^+$ $\times$ B($K^{*-} \to K^- \pi^0$)		(2.0 ±0.2) %		711
$\overline{K}^*(892)^0 \pi^0$ $\times$ B($\overline{K}^{*0} \to K^- \pi^+$)		(1.87±0.27) %		709
$K_0^*(1430)^- \pi^+$ $\times$ B($K_0^*(1430)^- \to K^- \pi^0$)		(3.6 ±0.8) $\times 10^{-3}$		364
$\overline{K}_0^*(1430)^0 \pi^0$ $\times$ B($\overline{K}_0^*(1430)^0 \to K^- \pi^+$)		(5.3 $^{+4.2}_{-1.4}$) $\times 10^{-3}$		365
$K^*(1680)^- \pi^+$ $\times$ B($K^*(1680)^- \to K^- \pi^0$)		(1.7 ±0.6) $\times 10^{-3}$		115
$K^- \pi^+ \pi^0$ nonresonant		(1.05$^{+0.51}_{-0.19}$) %		844
$\overline{K}^0 \pi^0 \pi^0$		—		843
$\overline{K}^*(892)^0 \pi^0$ $\times$ B($\overline{K}^{*0} \to \overline{K}^0 \pi^0$)		(9.3 ±1.3) $\times 10^{-3}$		709
$\overline{K}^0 \pi^0 \pi^0$ nonresonant		(8.4 ±2.2) $\times 10^{-3}$		843
$K^- \pi^+ \pi^+ \pi^-$	[rr]	(7.46±0.31) %		812
$K^- \pi^+ \rho^0$ total		(6.2 ±0.4) %		612
$K^- \pi^+ \rho^0$ 3-body		(4.7 ±2.1) $\times 10^{-3}$		612
$\overline{K}^*(892)^0 \rho^0$ $\times$ B($\overline{K}^{*0} \to K^- \pi^+$)		(9.7 ±2.1) $\times 10^{-3}$		418
$K^- a_1(1260)^+$ $\times$ B($a_1(1260)^+ \to \pi^+ \pi^+ \pi^-$)		(3.6 ±0.6) %		327

$\overline{K}^*(892)^0 \pi^+ \pi^-$ total $\times$ B($\overline{K}^{*0} \to K^- \pi^+$)		(1.5 ± 0.4) %	683
$\overline{K}^*(892)^0 \pi^+ \pi^-$ 3-body $\times$ B($\overline{K}^{*0} \to K^- \pi^+$)		(9.5 ± 2.1) $\times 10^{-3}$	683
$K_1(1270)^- \pi^+$ $\times$ B($K_1(1270)^- \to K^- \pi^+ \pi^-$)	[ss]	(3.7 ± 1.0) $\times 10^{-3}$	483
$K^- \pi^+ \pi^+ \pi^-$ nonresonant		(1.74 ± 0.25) %	812
$\overline{K}^0 \pi^+ \pi^- \pi^0$	[rr]	(10.8 ± 1.3) %	812
$\overline{K}^0 \eta \times$ B($\eta \to \pi^+ \pi^- \pi^0$)		(1.7 ± 0.3) $\times 10^{-3}$	772
$\overline{K}^0 \omega \times$ B($\omega \to \pi^+ \pi^- \pi^0$)		(2.2 ± 0.4) %	670
$K^*(892)^- \rho^+$ $\times$ B($K^{*-} \to \overline{K}^0 \pi^-$)		(4.3 ± 1.7) %	422
$\overline{K}^*(892)^0 \rho^0$ $\times$ B($\overline{K}^{*0} \to \overline{K}^0 \pi^0$)		(4.8 ± 1.1) $\times 10^{-3}$	418
$K_1(1270)^- \pi^+$ $\times$ B($K_1(1270)^- \to \overline{K}^0 \pi^- \pi^0$)	[ss]	(5.3 ± 1.5) $\times 10^{-3}$	483
$\overline{K}^*(892)^0 \pi^+ \pi^-$ 3-body $\times$ B($\overline{K}^{*0} \to \overline{K}^0 \pi^0$)		(4.7 ± 1.0) $\times 10^{-3}$	683
$\overline{K}^0 \pi^+ \pi^- \pi^0$ nonresonant		(2.3 ± 2.3) %	812
$K^- \pi^+ \pi^+ \pi^- \pi^0$		(4.0 ± 0.4) %	771
$\overline{K}^*(892)^0 \pi^+ \pi^- \pi^0$ $\times$ B($\overline{K}^{*0} \to K^- \pi^+$)		(1.2 ± 0.6) %	641
$\overline{K}^*(892)^0 \eta$ $\times$ B($\overline{K}^{*0} \to K^- \pi^+$) $\times$ B($\eta \to \pi^+ \pi^- \pi^0$)		(2.8 ± 0.6) $\times 10^{-3}$	580
$K^- \pi^+ \omega \times$ B($\omega \to \pi^+ \pi^- \pi^0$)		(2.7 ± 0.5) %	605
$\overline{K}^*(892)^0 \omega$ $\times$ B($\overline{K}^{*0} \to K^- \pi^+$) $\times$ B($\omega \to \pi^+ \pi^- \pi^0$)		(6.5 ± 2.4) $\times 10^{-3}$	406
$\overline{K}^0 \pi^+ \pi^+ \pi^- \pi^-$		(6.3 ± 1.8) $\times 10^{-3}$	768
$\overline{K}^0 K^+ K^-$		(1.02 ± 0.10) %	544
$\overline{K}^0 \phi \times$ B($\phi \to K^+ K^-$)		(4.7 ± 0.6) $\times 10^{-3}$	520
$\overline{K}^0 K^+ K^-$ non-ϕ		(5.5 ± 0.9) $\times 10^{-3}$	544
$K^0_S K^0_S K^0_S$		(9.1 ± 1.6) $\times 10^{-4}$	538
$K^+ K^- K^- \pi^+$		(2.4 ± 0.7) $\times 10^{-4}$	434

Fractions of many of the following modes with resonances have already appeared above as submodes of particular charged-particle modes. (Modes for which there are only upper limits and $\overline{K}^*(892)\rho$ submodes only appear below.)

$\overline{K}^0\eta$		$(7.6\pm1.1)\times10^{-3}$		772
$\overline{K}^0\rho^0$		(1.47 ± 0.29) %		676
$K^-\rho^+$		(10.2 ± 0.8) %	S=1.2	678
$\overline{K}^0\omega$		(2.2 ± 0.4) %		670
$\overline{K}^0\eta'(958)$		(1.87 ± 0.28) %		565
$\overline{K}^0\phi$		$(9.4\pm1.1)\times10^{-3}$		520
$K^-a_1(1260)^+$		(7.2 ± 1.1) %		327
$\overline{K}^0a_1(1260)^0$		<1.9 %	CL=90%	322
$\overline{K}^0f_2(1270)$		$(4.5\pm1.7)\times10^{-3}$		263
$K^-a_2(1320)^+$		$<2\times10^{-3}$	CL=90%	197
$K^*(892)^-\pi^+$		(6.0 ± 0.5) %	S=1.2	711
$\overline{K}^*(892)^0\pi^0$		(2.8 ± 0.4) %	S=1.1	709
$\overline{K}^*(892)^0\pi^+\pi^-$ total		(2.2 ± 0.5) %		683
$\overline{K}^*(892)^0\pi^+\pi^-$ 3-body		(1.42 ± 0.31) %		683
$K^-\pi^+\rho^0$ total		(6.2 ± 0.4) %		612
$K^-\pi^+\rho^0$ 3-body		$(4.7\pm2.1)\times10^{-3}$		612
$\overline{K}^*(892)^0\rho^0$		(1.45 ± 0.32) %		418
$\overline{K}^*(892)^0\rho^0$ transverse		(1.5 ± 0.5) %		418
$\overline{K}^*(892)^0\rho^0$ *S*-wave		(2.8 ± 0.6) %		418
$\overline{K}^*(892)^0\rho^0$ *S*-wave long.		$<3\times10^{-3}$	CL=90%	418
$\overline{K}^*(892)^0\rho^0$ *P*-wave		$<3\times10^{-3}$	CL=90%	418
$\overline{K}^*(892)^0\rho^0$ *D*-wave		(1.9 ± 0.6) %		418
$K^*(892)^-\rho^+$		(6.5 ± 2.6) %		422
$K^*(892)^-\rho^+$ longitudinal		(3.1 ± 1.3) %		422
$K^*(892)^-\rho^+$ transverse		(3.4 ± 2.0) %		422
$K^*(892)^-\rho^+$ *P*-wave		<1.5 %	CL=90%	422
$K_1(1270)^-\pi^+$	[ss]	(1.13 ± 0.31) %		483
$K_1(1400)^-\pi^+$		<1.2 %	CL=90%	386
$\overline{K}_1(1400)^0\pi^0$		<3.7 %	CL=90%	387
$K_0^*(1430)^-\pi^+$		(1.18 ± 0.25) %		364
$\overline{K}_0^*(1430)^0\pi^0$		$(8.6\ ^{+6.8}_{-2.3})\times10^{-3}$		–
$K_2^*(1430)^-\pi^+$		$<9\times10^{-3}$	CL=90%	367
$\overline{K}_2^*(1430)^0\pi^0$		$<3.4\times10^{-3}$	CL=90%	363
$K^*(1680)^-\pi^+$		(1.3 ± 0.5) %		–
$\overline{K}^*(892)^0\pi^+\pi^-\pi^0$		(1.8 ± 0.9) %		641
$\overline{K}^*(892)^0\eta$		(1.8 ± 0.4) %		580
$K^-\pi^+\omega$		(3.0 ± 0.6) %		605

$\overline{K}^*(892)^0\,\omega$		$(1.1\ \pm0.4\ )\,\%$		406
$K^-\pi^+\eta'(958)$		$(6.9\ \pm1.8\ )\times10^{-3}$		479
$\overline{K}^*(892)^0\,\eta'(958)$		$<1.0\ \times10^{-3}$	CL=90%	99
$K^-\pi^+\phi$		$(3.3\ \pm1.7\ )\times10^{-4}$		–

Pionic modes

$\pi^+\pi^-$		$(1.43\pm0.07)\times10^{-3}$		922
$\pi^0\pi^0$		$(8.4\ \pm2.2\ )\times10^{-4}$		922
$\pi^+\pi^-\pi^0$		$(1.1\ \pm0.4\ )\,\%$		907
$\pi^+\pi^+\pi^-\pi^-$		$(7.3\ \pm0.5\ )\times10^{-3}$		879

Hadronic modes with a $K\overline{K}$ pair

K^+K^-		$(4.12\pm0.14)\times10^{-3}$		791
$K^0\overline{K}^0$		$(7.1\ \pm1.9\ )\times10^{-4}$	S=1.2	788
$K^0K^-\pi^+$		$(6.9\ \pm1.0\ )\times10^{-3}$	S=1.1	739
$\overline{K}^*(892)^0K^0$ $\times$ B($\overline{K}^{*0}\to K^-\pi^+$)		$<1.1\ \times10^{-3}$	CL=90%	605
$K^*(892)^+K^-$ $\times$ B($K^{*+}\to K^0\pi^+$)		$(2.5\ \pm0.5\ )\times10^{-3}$		610
$K^0K^-\pi^+$ nonresonant		$(2.3\ \pm2.3\ )\times10^{-3}$		739
$\overline{K}^0K^+\pi^-$		$(5.2\ \pm1.0\ )\times10^{-3}$		739
$K^*(892)^0\overline{K}^0$ $\times$ B($K^{*0}\to K^+\pi^-$)		$<6\ \times10^{-4}$	CL=90%	605
$K^*(892)^-K^+$ $\times$ B($K^{*-}\to\overline{K}^0\pi^-$)		$(1.3\ \pm0.7\ )\times10^{-3}$		610
$\overline{K}^0K^+\pi^-$ nonresonant		$(3.8\ ^{+2.3}_{-1.9}\ )\times10^{-3}$		739
$K^+K^-\pi^0$		$(1.24\pm0.35)\times10^{-3}$		742
$K^0_SK^0_S\pi^0$		$<5.9\ \times10^{-4}$		739
$K^+K^-\pi^+\pi^-$	[xx]	$(2.49\pm0.23)\times10^{-3}$		676
$\phi\pi^+\pi^-\times$ B($\phi\to K^+K^-$)		$(5.3\ \pm1.4\ )\times10^{-4}$		614
$\phi\rho^0\times$ B($\phi\to K^+K^-$)		$(2.9\ \pm1.5\ )\times10^{-4}$		260
$K^+K^-\rho^0$ 3-body		$(9.0\ \pm2.3\ )\times10^{-4}$		309
$K^*(892)^0K^-\pi^+$+c.c. $\times$ B($K^{*0}\to K^+\pi^-$)	[yy]	$<5\ \times10^{-4}$		528
$K^*(892)^0\overline{K}^*(892)^0$ $\times$ B^2($K^{*0}\to K^+\pi^-$)		$(6\ \pm2\ )\times10^{-4}$		257
$K^+K^-\pi^+\pi^-$ nonresonant		$<8\ \times10^{-4}$	CL=90%	676
$K^0\overline{K}^0\pi^+\pi^-$		$(7.5\ \pm2.9\ )\times10^{-3}$		673
$K^+K^-\pi^+\pi^-\pi^0$		$(3.1\ \pm2.0\ )\times10^{-3}$		600

Fractions of most of the following modes with resonances have already appeared above as submodes of particular charged-particle modes.

$\overline{K}^*(892)^0 K^0$		$<$ 1.7	$\times 10^{-3}$	CL=90%	605
$K^*(892)^+ K^-$		(3.8 $\pm$0.8)	$\times 10^{-3}$		610
$K^*(892)^0 \overline{K}^0$		$<$ 9	$\times 10^{-4}$	CL=90%	605
$K^*(892)^- K^+$		(2.0 $\pm$1.1)	$\times 10^{-3}$		610
$\phi \pi^0$		$<$ 1.4	$\times 10^{-3}$	CL=90%	644
$\phi \eta$		$<$ 2.8	$\times 10^{-3}$	CL=90%	489
$\phi \omega$		$<$ 2.1	$\times 10^{-3}$	CL=90%	239
$\phi \pi^+ \pi^-$		(1.07$\pm$0.28)	$\times 10^{-3}$		614
$\phi \rho^0$		(5.7 $\pm$3.0)	$\times 10^{-4}$		260
$\phi \pi^+ \pi^-$ 3-body		(7 $\pm$5)	$\times 10^{-4}$		614
$K^*(892)^0 K^- \pi^+$ + c.c.	[yy]	$<$ 7	$\times 10^{-4}$	CL=90%	528
$K^*(892)^0 \overline{K}^*(892)^0$		(1.4 $\pm$0.5)	$\times 10^{-3}$		257

Radiative modes

$\rho^0 \gamma$	$<$ 2.4	$\times 10^{-4}$	CL=90%	773
$\omega \gamma$	$<$ 2.4	$\times 10^{-4}$	CL=90%	768
$\phi \gamma$	$<$ 1.9	$\times 10^{-4}$	CL=90%	654
$\overline{K}^*(892)^0 \gamma$	$<$ 7.6	$\times 10^{-4}$	CL=90%	717

Doubly Cabibbo suppressed (*DC*) modes, $\Delta C = 2$ forbidden via mixing (*C2M*) modes, $\Delta C = 1$ weak neutral current (*C1*) modes, Lepton Family number (*LF*) violating modes, or Lepton number (*L*) violating modes

$K^+ \ell^- \overline{\nu}_\ell$ (via $\overline{D}^0$)	*C2M*	$<$ 1.7	$\times 10^{-4}$	CL=90%	–
$K^+ \pi^-$	*DC*	(1.48$\pm$0.21)	$\times 10^{-4}$		861
$K^+ \pi^-$ (via $\overline{D}^0$)	*C2M*	$<$ 1.6	$\times 10^{-5}$	CL=95%	861
$K^+ \pi^- \pi^0$		(5.6 $\pm$1.7)	$\times 10^{-4}$		844
$K^+ \pi^- \pi^+ \pi^-$	*DC*	(3.1 $\pm$1.0)	$\times 10^{-4}$		812
$K^+ \pi^- \pi^+ \pi^-$ (via $\overline{D}^0$)	*C2M*	$<$ 4	$\times 10^{-4}$	CL=90%	812
$K^+ \pi^-$ or $K^+ \pi^- \pi^+ \pi^-$ (via $\overline{D}^0$)		$<$ 1.0	$\times 10^{-3}$	CL=90%	–
μ^- anything (via $\overline{D}^0$)	*C2M*	$<$ 4	$\times 10^{-4}$	CL=90%	–
$e^+ e^-$	*C1*	$<$ 6.2	$\times 10^{-6}$	CL=90%	932
$\mu^+ \mu^-$	*C1*	$<$ 4.1	$\times 10^{-6}$	CL=90%	926
$\pi^0 e^+ e^-$	*C1*	$<$ 4.5	$\times 10^{-5}$	CL=90%	927
$\pi^0 \mu^+ \mu^-$	*C1*	$<$ 1.8	$\times 10^{-4}$	CL=90%	915
$\eta e^+ e^-$	*C1*	$<$ 1.1	$\times 10^{-4}$	CL=90%	852
$\eta \mu^+ \mu^-$	*C1*	$<$ 5.3	$\times 10^{-4}$	CL=90%	838
$\pi^+ \pi^- e^+ e^-$	*C1*	$<$ 3.73	$\times 10^{-4}$	CL=90%	922
$\rho^0 e^+ e^-$	*C1*	$<$ 1.0	$\times 10^{-4}$	CL=90%	773
$\pi^+ \pi^- \mu^+ \mu^-$	*C1*	$<$ 3.0	$\times 10^{-5}$	CL=90%	894
$\rho^0 \mu^+ \mu^-$	*C1*	$<$ 2.2	$\times 10^{-5}$	CL=90%	756

$\omega e^+ e^-$	*C1*		$<$	1.8	$\times 10^{-4}$	CL=90%	768
$\omega \mu^+ \mu^-$	*C1*		$<$	8.3	$\times 10^{-4}$	CL=90%	751
$K^- K^+ e^+ e^-$	*C1*		$<$	3.15	$\times 10^{-4}$	CL=90%	790
$\phi e^+ e^-$	*C1*		$<$	5.2	$\times 10^{-5}$	CL=90%	654
$K^- K^+ \mu^+ \mu^-$	*C1*		$<$	3.3	$\times 10^{-5}$	CL=90%	709
$\phi \mu^+ \mu^-$	*C1*		$<$	3.1	$\times 10^{-5}$	CL=90%	631
$\overline{K}^0 e^+ e^-$		[*uu*]	$<$	1.1	$\times 10^{-4}$	CL=90%	866
$\overline{K}^0 \mu^+ \mu^-$		[*uu*]	$<$	2.6	$\times 10^{-4}$	CL=90%	852
$K^- \pi^+ e^+ e^-$	*C1*		$<$	3.85	$\times 10^{-4}$	CL=90%	861
$\overline{K}^*(892)^0 e^+ e^-$		[*uu*]	$<$	4.7	$\times 10^{-5}$	CL=90%	717
$K^- \pi^+ \mu^+ \mu^-$	*C1*		$<$	3.59	$\times 10^{-4}$	CL=90%	829
$\overline{K}^*(892)^0 \mu^+ \mu^-$		[*uu*]	$<$	2.4	$\times 10^{-5}$	CL=90%	698
$\pi^+ \pi^- \pi^0 \mu^+ \mu^-$	*C1*		$<$	8.1	$\times 10^{-4}$	CL=90%	863
$\mu^\pm e^\mp$	*LF*	[*ff*]	$<$	8.1	$\times 10^{-6}$	CL=90%	929
$\pi^0 e^\pm \mu^\mp$	*LF*	[*ff*]	$<$	8.6	$\times 10^{-5}$	CL=90%	924
$\eta e^\pm \mu^\mp$	*LF*	[*ff*]	$<$	1.0	$\times 10^{-4}$	CL=90%	848
$\pi^+ \pi^- e^\pm \mu^\mp$	*LF*	[*ff*]	$<$	1.5	$\times 10^{-5}$	CL=90%	911
$\rho^0 e^\pm \mu^\mp$	*LF*	[*ff*]	$<$	4.9	$\times 10^{-5}$	CL=90%	769
$\omega e^\pm \mu^\mp$	*LF*	[*ff*]	$<$	1.2	$\times 10^{-4}$	CL=90%	764
$K^- K^+ e^\pm \mu^\mp$	*LF*	[*ff*]	$<$	1.8	$\times 10^{-4}$	CL=90%	754
$\phi e^\pm \mu^\mp$	*LF*	[*ff*]	$<$	3.4	$\times 10^{-5}$	CL=90%	648
$\overline{K}^0 e^\pm \mu^\mp$	*LF*	[*ff*]	$<$	1.0	$\times 10^{-4}$	CL=90%	862
$K^- \pi^+ e^\pm \mu^\mp$	*LF*	[*ff*]	$<$	5.53	$\times 10^{-4}$	CL=90%	848
$\overline{K}^*(892)^0 e^\pm \mu^\mp$	*LF*	[*ff*]	$<$	8.3	$\times 10^{-5}$	CL=90%	712
$\pi^- \pi^- e^+ e^+ +$ c.c.	*L*		$<$	1.12	$\times 10^{-4}$	CL=90%	922
$\pi^- \pi^- \mu^+ \mu^+ +$ c.c.	*L*		$<$	2.9	$\times 10^{-5}$	CL=90%	894
$K^- \pi^- e^+ e^+ +$ c.c.	*L*		$<$	2.06	$\times 10^{-4}$	CL=90%	861
$K^- \pi^- \mu^+ \mu^+ +$ c.c.	*L*		$<$	3.9	$\times 10^{-4}$	CL=90%	829
$K^- K^- e^+ e^+ +$ c.c.	*L*		$<$	1.52	$\times 10^{-4}$	CL=90%	790
$K^- K^- \mu^+ \mu^+ +$ c.c.	*L*		$<$	9.4	$\times 10^{-5}$	CL=90%	709
$\pi^- \pi^- e^+ \mu^+ +$ c.c.	*L*		$<$	7.9	$\times 10^{-5}$	CL=90%	911
$K^- \pi^- e^+ \mu^+ +$ c.c.	*L*		$<$	2.18	$\times 10^{-4}$	CL=90%	848
$K^- K^- e^+ \mu^+ +$ c.c.	*L*		$<$	5.7	$\times 10^{-5}$	CL=90%	754

$D^*(2007)^0$

$I(J^P) = \frac{1}{2}(1^-)$
I, J, P need confirmation.

Mass $m = 2006.7 \pm 0.5$ MeV (S = 1.1)
$m_{D^{*0}} - m_{D^0} = 142.12 \pm 0.07$ MeV
Full width $\Gamma < 2.1$ MeV, CL = 90%

$\overline{D}^*(2007)^0$ modes are charge conjugates of modes below.

$D^*(2007)^0$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$D^0\pi^0$	(61.9 ± 2.9) %	43
$D^0\gamma$	(38.1 ± 2.9) %	137

$D^*(2010)^\pm$

$I(J^P) = \frac{1}{2}(1^-)$
I, J, P need confirmation.

Mass $m = 2010.0 \pm 0.5$ MeV (S = 1.1)
$m_{D^*(2010)^+} - m_{D^+} = 140.64 \pm 0.10$ MeV (S = 1.1)
$m_{D^*(2010)^+} - m_{D^0} = 145.421 \pm 0.010$ MeV (S = 1.1)
Full width $\Gamma = 96 \pm 22$ keV

$D^*(2010)^-$ modes are charge conjugates of the modes below.

$D^*(2010)^\pm$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$D^0\pi^+$	(67.7 ± 0.5) %	39
$D^+\pi^0$	(30.7 ± 0.5) %	38
$D^+\gamma$	$(\ 1.6\pm0.4)$ %	136

$D_1(2420)^0$

$I(J^P) = \frac{1}{2}(1^+)$
I, J, P need confirmation.

Mass $m = 2422.2 \pm 1.8$ MeV (S = 1.2)
Full width $\Gamma = 18.9^{+4.6}_{-3.5}$ MeV

$\overline{D}_1(2420)^0$ modes are charge conjugates of modes below.

$D_1(2420)^0$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$D^*(2010)^+\pi^-$	seen	355
$D^+\pi^-$	not seen	474

$D_2^*(2460)^0$

$I(J^P) = \frac{1}{2}(2^+)$

$J^P = 2^+$ assignment strongly favored (ALBRECHT 89B).

Mass $m = 2458.9 \pm 2.0$ MeV (S = 1.2)
Full width $\Gamma = 23 \pm 5$ MeV

$\overline{D}_2^*(2460)^0$ modes are charge conjugates of modes below.

$D_2^*(2460)^0$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$D^+\pi^-$	seen	503
$D^*(2010)^+\pi^-$	seen	387

$D_2^*(2460)^{\pm}$

$I(J^P) = \frac{1}{2}(2^+)$

$J^P = 2^+$ assignment strongly favored (ALBRECHT 89B).

Mass $m = 2459 \pm 4$ MeV (S = 1.7)
$m_{D_2^*(2460)^{\pm}} - m_{D_2^*(2460)^0} = 0.9 \pm 3.3$ MeV (S = 1.1)
Full width $\Gamma = 25^{+8}_{-7}$ MeV

$D_2^*(2460)^-$ modes are charge conjugates of modes below.

$D_2^*(2460)^{\pm}$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$D^0\pi^+$	seen	508
$D^{*0}\pi^+$	seen	390