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 $\tau = (1.051 \pm 0.013) \times 10^{-12}$ s
$c\tau = 315\ \mu$m

c-quark decays

$\Gamma(c \to \ \ell^+ \text{anything})/\Gamma(c \to \ \text{anything}) = 0.095 \pm 0.009$ [mm]

CP-violation decay-rate asymmetries

$A_{CP}(K^+ K^- \pi^\pm) = -0.017 \pm 0.027$
$A_{CP}(K^\pm K^{*0}) = -0.02 \pm 0.05$
$A_{CP}(\phi \pi^\pm) = -0.014 \pm 0.033$
$A_{CP}(\pi^+ \pi^- \pi^\pm) = -0.02 \pm 0.04$

$D^+ \to \overline{K}^*(892)^0 \ell^+ \nu_\ell$ 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	[nn] < 13 %	CL=90%	–

Leptonic and semileptonic modes

$\mu^+ \nu_\mu$		$(8 \ {}^{+17}_{-\ 5}) \times 10^{-4}$		932
$\overline{K}^0 \ell^+ \nu_\ell$	[oo]	(6.8 ± 0.8) %		–
$\quad \overline{K}^0 e^+ \nu_e$		(6.7 ± 0.9) %		868
$\quad \overline{K}^0 \mu^+ \nu_\mu$		$(7.0 \ {}^{+\ 3.0}_{-\ 2.0})$ %		865
$K^- \pi^+ e^+ \nu_e$		$(4.1 \ {}^{+\ 0.9}_{-\ 0.7})$ %		863
$\quad \overline{K}^*(892)^0 e^+ \nu_e$ $\times$ B$(\overline{K}^{*0} \to K^- \pi^+)$		(3.2 ± 0.33) %		720
$\quad K^- \pi^+ e^+ \nu_e$ nonresonant		$< 7 \times 10^{-3}$	CL=90%	863
$K^- \pi^+ \mu^+ \nu_\mu$		(3.2 ± 0.4) %	S=1.1	851
$\quad \overline{K}^*(892)^0 \mu^+ \nu_\mu$ $\times$ B$(\overline{K}^{*0} \to K^- \pi^+)$		(2.9 ± 0.4) %		715
$\quad K^- \pi^+ \mu^+ \nu_\mu$ 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
$\pi^0 \ell^+ \nu_\ell$	[pp]	$(3.1 \pm 1.5) \times 10^{-3}$		930

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

$\overline{K}^*(892)^0 \ell^+ \nu_\ell$	[oo]	(4.7 ± 0.4) %		–
$\quad \overline{K}^*(892)^0 e^+ \nu_e$		(4.8 ± 0.5) %		720
$\quad \overline{K}^*(892)^0 \mu^+ \nu_\mu$		(4.4 ± 0.6) %	S=1.1	715
$\overline{K}_1(1270)^0 \mu^+ \nu_\mu$		< 3.5 %	CL=95%	493
$\overline{K}^*(1410)^0 \mu^+ \nu_\mu$		< 2.7 %	CL=95%	389
$\overline{K}^*_2(1430)^0 \mu^+ \nu_\mu$		$< 8 \times 10^{-3}$	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 $\overline{K}K\overline{K}$

$\overline{K}^0 \pi^+$		(2.89 ± 0.26) %	S=1.1	862
$K^- \pi^+ \pi^+$	[qq]	(9.0 ± 0.6) %		845
$\quad \overline{K}^*(892)^0 \pi^+$ $\times$ B$(\overline{K}^{*0} \to K^- \pi^+)$		(1.27 ± 0.13) %		712
$\quad \overline{K}^*_0(1430)^0 \pi^+$ $\times$ B$(\overline{K}^*_0(1430)^0 \to K^- \pi^+)$		(2.3 ± 0.3) %		368
$\quad \overline{K}^*(1680)^0 \pi^+$ $\times$ B$(\overline{K}^*(1680)^0 \to K^- \pi^+)$		$(3.7 \pm 0.8) \times 10^{-3}$		65

$K^-\pi^+\pi^+$ nonresonant		$(8.5 \pm 0.8)\,\%$		845
$\overline{K}^0\pi^+\pi^0$	[qq]	$(9.7 \pm 3.0)\,\%$	S=1.1	845
$\overline{K}^0\rho^+$		$(6.6 \pm 2.5)\,\%$		680
$\overline{K}^*(892)^0\pi^+$ $\times$ B($\overline{K}^{*0} \to \overline{K}^0\pi^0$)		$(6.3 \pm 0.4) \times 10^{-3}$		712
$\overline{K}^0\pi^+\pi^0$ nonresonant		$(1.3 \pm 1.1)\,\%$		845
$K^-\pi^+\pi^+\pi^0$	[qq]	$(6.4 \pm 1.1)\,\%$		816
$\overline{K}^*(892)^0\rho^+$ total $\times$ B($\overline{K}^{*0} \to K^-\pi^+$)		$(1.4 \pm 0.9)\,\%$		423
$\overline{K}_1(1400)^0\pi^+$ $\times$ B($\overline{K}_1(1400)^0 \to K^-\pi^+\pi^0$)		$(2.2 \pm 0.6)\,\%$		390
$K^-\rho^+\pi^+$ total		$(3.1 \pm 1.1)\,\%$		616
$K^-\rho^+\pi^+$ 3-body		$(1.1 \pm 0.4)\,\%$		616
$\overline{K}^*(892)^0\pi^+\pi^0$ total $\times$ B($\overline{K}^{*0} \to K^-\pi^+$)		$(4.5 \pm 0.9)\,\%$		687
$\overline{K}^*(892)^0\pi^+\pi^0$ 3-body $\times$ B($\overline{K}^{*0} \to K^-\pi^+$)		$(2.8 \pm 0.9)\,\%$		687
$K^*(892)^-\pi^+\pi^+$ 3-body $\times$ B($K^{*-} \to K^-\pi^0$)		$(7 \pm 3) \times 10^{-3}$		688
$K^-\pi^+\pi^+\pi^0$ nonresonant	[rr]	$(1.2 \pm 0.6)\,\%$		816
$\overline{K}^0\pi^+\pi^+\pi^-$	[qq]	$(7.0 \pm 0.9)\,\%$		814
$\overline{K}^0 a_1(1260)^+$ $\times$ B($a_1(1260)^+ \to \pi^+\pi^+\pi^-$)		$(4.0 \pm 0.9)\,\%$		328
$\overline{K}_1(1400)^0\pi^+$ $\times$ B($\overline{K}_1(1400)^0 \to \overline{K}^0\pi^+\pi^-$)		$(2.2 \pm 0.6)\,\%$		390
$K^*(892)^-\pi^+\pi^+$ 3-body $\times$ B($K^{*-} \to \overline{K}^0\pi^-$)		$(1.4 \pm 0.6)\,\%$		688
$\overline{K}^0\rho^0\pi^+$ total		$(4.2 \pm 0.9)\,\%$		614
$\overline{K}^0\rho^0\pi^+$ 3-body		$(5 \pm 5) \times 10^{-3}$		614
$\overline{K}^0\pi^+\pi^+\pi^-$ nonresonant		$(8 \pm 4) \times 10^{-3}$		814
$K^-\pi^+\pi^+\pi^+\pi^-$	[qq]	$(7.2 \pm 1.0) \times 10^{-3}$		772
$\overline{K}^*(892)^0\pi^+\pi^+\pi^-$ $\times$ B($\overline{K}^{*0} \to K^-\pi^+$)		$(5.4 \pm 2.3) \times 10^{-3}$		642
$\overline{K}^*(892)^0\rho^0\pi^+$ $\times$ B($\overline{K}^{*0} \to K^-\pi^+$)		$(1.9 {}^{+1.1}_{-1.0}) \times 10^{-3}$		242
$\overline{K}^*(892)^0\pi^+\pi^+\pi^-$ no-ρ $\times$ B($\overline{K}^{*0} \to K^-\pi^+$)		$(2.9 \pm 1.1) \times 10^{-3}$		642
$K^-\rho^0\pi^+\pi^+$		$(3.1 \pm 0.9) \times 10^{-3}$		529
$K^-\pi^+\pi^+\pi^+\pi^-$ nonresonant		$< 2.3 \times 10^{-3}$	CL=90%	772
$K^-\pi^+\pi^+\pi^0\pi^0$		$(2.2 {}^{+5.0}_{-0.9})\,\%$		775
$\overline{K}^0\pi^+\pi^+\pi^-\pi^0$		$(5.4 {}^{+3.0}_{-1.4})\,\%$		773

$\overline{K}^0 \pi^+ \pi^+ \pi^+ \pi^- \pi^-$		(8 ± 7) $\times 10^{-4}$		714
$K^- \pi^+ \pi^+ \pi^+ \pi^- \pi^0$		(2.0 ± 1.8) $\times 10^{-3}$		718
$\overline{K}^0 \overline{K}^0 K^+$		(1.8 ± 0.8) %		545

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
$\overline{K}^0 a_1(1260)^+$		(8.0 ± 1.7) %		328
$\overline{K}^0 a_2(1320)^+$		< 3 $\times 10^{-3}$	CL=90%	199
$\overline{K}^*(892)^0 \pi^+$		(1.90 ± 0.19) %		712
$\overline{K}^*(892)^0 \rho^+$ total	[rr]	(2.1 ± 1.3) %		423
$\overline{K}^*(892)^0 \rho^+$ S-wave	[rr]	(1.6 ± 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
$\overline{K}^*(1410)^0 \pi^+$		< 7 $\times 10^{-3}$	CL=90%	382
$\overline{K}_0^*(1430)^0 \pi^+$		(3.7 ± 0.4) %		368
$\overline{K}^*(1680)^0 \pi^+$		(1.43 ± 0.30) %		65
$\overline{K}^*(892)^0 \pi^+ \pi^0$ total		(6.7 ± 1.4) %		687
$\overline{K}^*(892)^0 \pi^+ \pi^0$ 3-body	[rr]	(4.2 ± 1.4) %		687
$K^*(892)^- \pi^+ \pi^+$ 3-body		(2.0 ± 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
$\overline{K}^0 f_0(980) \pi^+$		< 5 $\times 10^{-3}$	CL=90%	461
$\overline{K}^*(892)^0 \pi^+ \pi^+ \pi^-$		(8.1 ± 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 ± 0.9) $\times 10^{-3}$		529

Pionic modes

$\pi^+ \pi^0$	(2.5 ± 0.7) $\times 10^{-3}$		925
$\pi^+ \pi^+ \pi^-$	(3.6 ± 0.4) $\times 10^{-3}$		908
$\rho^0 \pi^+$	(1.05 ± 0.31) $\times 10^{-3}$		769
$\pi^+ \pi^+ \pi^-$ nonresonant	(2.2 ± 0.4) $\times 10^{-3}$		908
$\pi^+ \pi^+ \pi^- \pi^0$	(1.9 $^{+1.5}_{-1.2}$) %		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
$\pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^0$	(2.9 $^{+2.9}_{-2.0}$) $\times 10^{-3}$		799

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
$\rho^0\pi^+$		$(1.05 \pm 0.31) \times 10^{-3}$		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

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

$K^+\overline{K}^0$		$(7.4 \pm 1.0) \times 10^{-3}$		792
$K^+K^-\pi^+$	[qq]	$(8.7 \pm 0.7) \times 10^{-3}$		744
$\phi\pi^+ \times B(\phi \to K^+K^-)$		$(3.0 \pm 0.3) \times 10^{-3}$		647
$K^+\overline{K}^*(892)^0 \times B(\overline{K}^{*0} \to K^-\pi^+)$		$(2.8 \pm 0.4) \times 10^{-3}$		610
$K^+K^-\pi^+$ nonresonant		$(4.5 \pm 0.9) \times 10^{-3}$		744
$K^0\overline{K}^0\pi^+$		—		741
$K^*(892)^+\overline{K}^0 \times B(K^{*+} \to K^0\pi^+)$		(2.1 ± 1.0) %		611
$K^+K^-\pi^+\pi^0$		—		682
$\phi\pi^+\pi^0 \times B(\phi \to K^+K^-)$		(1.1 ± 0.5) %		619
$\phi\rho^+ \times B(\phi \to K^+K^-)$		$< 7 \times 10^{-3}$	CL=90%	268
$K^+K^-\pi^+\pi^0$ non-ϕ		$(1.5 {}^{+0.7}_{-0.6})$ %		682
$K^+\overline{K}^0\pi^+\pi^-$		< 2 %	CL=90%	678
$K^0K^-\pi^+\pi^+$		(1.0 ± 0.6) %		678
$K^*(892)^+\overline{K}^*(892)^0 \times B^2(K^{*+} \to K^0\pi^+)$		(1.2 ± 0.5) %		273
$K^0K^-\pi^+\pi^+$ non-$K^{*+}\overline{K}^{*0}$		$< 7.9 \times 10^{-3}$	CL=90%	678
$K^+K^-\pi^+\pi^+\pi^-$		—		600
$\phi\pi^+\pi^+\pi^- \times B(\phi \to K^+K^-)$		$< 1 \times 10^{-3}$	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
$K^*(892)^+\overline{K}^0$	(3.2 ± 1.5) %		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*		$(2.4 \pm 1.2) \times 10^{-4}$		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
$K^+ e^+ e^-$		[*ss*]	$< 2.0 \times 10^{-4}$	CL=90%	869
$K^+ \mu^+ \mu^-$		[*ss*]	$< 4.4 \times 10^{-5}$	CL=90%	856
$\pi^+ e^\pm \mu^\mp$	*LF*	[*ee*]	$< 3.4 \times 10^{-5}$	CL=90%	926
$K^+ e^\pm \mu^\mp$	*LF*	[*ee*]	$< 6.8 \times 10^{-5}$	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

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

Mass $m = 1864.5 \pm 0.5$ MeV (S = 1.1)

$m_{D^\pm} - m_{D^0} = 4.79 \pm 0.10$ MeV (S = 1.1)

Mean life $\tau = (0.4126 \pm 0.0028) \times 10^{-12}$ s

$c\tau = 123.7$ μm

$\left| m_{D_1^0} - m_{D_2^0} \right| < 7 \times 10^{10}\ \hbar\ \mathrm{s}^{-1}$, CL = 95% [tt]

$(\Gamma_{D_1^0} - \Gamma_{D_2^0})/\Gamma_{D^0}$: $-0.116 < \Delta\Gamma/\Gamma < 0.020$, CL = 95% [tt]

$\Gamma(K^+ \ell^- \overline{\nu}_\ell \text{ (via } \overline{D}^0))/\Gamma(K^- \ell^+ \nu_\ell) < 0.005$, 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

$A_{CP}(K^+K^-) = 0.026 \pm 0.035$
$A_{CP}(\pi^+\pi^-) = -0.05 \pm 0.08$
$A_{CP}(K_S^0\phi) = -0.03 \pm 0.09$
$A_{CP}(K_S^0\pi^0) = -0.018 \pm 0.030$
$A_{CP}(K^\pm\pi^\mp) = 0.02 \pm 0.20$

$\overline{D}^0$ 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		(6.75±0.29) %		–
μ^+ anything		(6.6 ±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	[nn]	< 13 %	CL=90%	–
Semileptonic modes				
$K^-\ell^+\nu_\ell$	[oo]	(3.47±0.17) %	S=1.3	867
$K^-e^+\nu_e$		(3.64±0.18) %		867
$K^-\mu^+\nu_\mu$		(3.22±0.17) %		863
$K^-\pi^0e^+\nu_e$		($1.6\ ^{+1.3}_{-0.5}$) %		861
$\overline{K}^0\pi^-e^+\nu_e$		($2.8\ ^{+1.7}_{-0.9}$) %		860
$\overline{K}^*(892)^-e^+\nu_e$ $\times$ B($K^{*-} \to \overline{K}^0\pi^-$)		(1.35±0.22) %		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
$\pi^-e^+\nu_e$		(3.7 ±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.

$K^*(892)^-e^+\nu_e$		(2.02±0.33) %		719

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

$K^- \pi^+$		(3.83±0.09) %		861
$\overline{K}^0 \pi^0$		(2.11±0.21) %	S=1.1	860
$\overline{K}^0 \pi^+ \pi^-$	[qq]	(5.4 ±0.4) %	S=1.2	842
$\quad \overline{K}^0 \rho^0$		(1.21±0.17) %		676
$\quad \overline{K}^0 f_0(980)$ $\times$ B($f_0 \rightarrow \pi^+ \pi^-$)		(3.0 ±0.8) $\times 10^{-3}$		549
$\quad \overline{K}^0 f_2(1270)$ $\times$ B($f_2 \rightarrow \pi^+ \pi^-$)		(2.4 ±0.9) $\times 10^{-3}$		263
$\quad \overline{K}^0 f_0(1370)$ $\times$ B($f_0 \rightarrow \pi^+ \pi^-$)		(4.3 ±1.3) $\times 10^{-3}$		–
$\quad K^*(892)^- \pi^+$ $\times$ B($K^{*-} \rightarrow \overline{K}^0 \pi^-$)		(3.4 ±0.3) %		711
$\quad K_0^*(1430)^- \pi^+$ $\times$ B($K_0^*(1430)^- \rightarrow \overline{K}^0 \pi^-$)		(6.4 ±1.6) $\times 10^{-3}$		364
$\quad \overline{K}^0 \pi^+ \pi^-$ nonresonant		(1.47±0.24) %		842
$K^- \pi^+ \pi^0$	[qq]	(13.9 ±0.9) %	S=1.3	844
$\quad K^- \rho^+$		(10.8 ±1.0) %		678
$\quad K^*(892)^- \pi^+$ $\times$ B($K^{*-} \rightarrow K^- \pi^0$)		(1.7 ±0.2) %		711
$\quad \overline{K}^*(892)^0 \pi^0$ $\times$ B($\overline{K}^{*0} \rightarrow K^- \pi^+$)		(2.1 ±0.3) %		709
$\quad K^- \pi^+ \pi^0$ nonresonant		(6.9 ±2.5) $\times 10^{-3}$		844
$\overline{K}^0 \pi^0 \pi^0$		—		843
$\quad \overline{K}^*(892)^0 \pi^0$ $\times$ B($\overline{K}^{*0} \rightarrow \overline{K}^0 \pi^0$)		(1.1 ±0.2) %		709
$\quad \overline{K}^0 \pi^0 \pi^0$ nonresonant		(7.8 ±2.0) $\times 10^{-3}$		843
$K^- \pi^+ \pi^+ \pi^-$	[qq]	(7.49±0.31) %		812
$\quad K^- \pi^+ \rho^0$ total		(6.3 ±0.4) %		612
$\quad\quad K^- \pi^+ \rho^0$ 3-body		(4.7 ±2.1) $\times 10^{-3}$		612
$\quad\quad \overline{K}^*(892)^0 \rho^0$ $\times$ B($\overline{K}^{*0} \rightarrow K^- \pi^+$)		(9.8 ±2.2) $\times 10^{-3}$		418
$\quad\quad K^- a_1(1260)^+$ $\times$ B($a_1(1260)^+ \rightarrow \pi^+ \pi^+ \pi^-$)		(3.6 ±0.6) %		327
$\quad \overline{K}^*(892)^0 \pi^+ \pi^-$ total $\times$ B($\overline{K}^{*0} \rightarrow K^- \pi^+$)		(1.5 ±0.4) %		683
$\quad\quad \overline{K}^*(892)^0 \pi^+ \pi^-$ 3-body $\times$ B($\overline{K}^{*0} \rightarrow K^- \pi^+$)		(9.5 ±2.1) $\times 10^{-3}$		683
$\quad K_1(1270)^- \pi^+$ $\times$ B($K_1(1270)^- \rightarrow K^- \pi^+ \pi^-$)	[rr]	(3.6 ±1.0) $\times 10^{-3}$		483
$\quad K^- \pi^+ \pi^+ \pi^-$ nonresonant		(1.74±0.25) %		812
$\overline{K}^0 \pi^+ \pi^- \pi^0$	[qq]	(10.0 ±1.2) %		812

$\overline{K}^0 \eta \times$ B($\eta \to \pi^+ \pi^- \pi^0$)		(1.6 $\pm$0.3) $\times 10^{-3}$		772
$\overline{K}^0 \omega \times$ B($\omega \to \pi^+ \pi^- \pi^0$)		(1.9 $\pm$0.4) %		670
$K^*(892)^- \rho^+$ $\times$ B($K^{*-} \to \overline{K}^0 \pi^-$)		(4.1 $\pm$1.6) %		422
$\overline{K}^*(892)^0 \rho^0$ $\times$ B($\overline{K}^{*0} \to \overline{K}^0 \pi^0$)		(4.9 $\pm$1.1) $\times 10^{-3}$		418
$K_1(1270)^- \pi^+$ $\times$ B($K_1(1270)^- \to \overline{K}^0 \pi^- \pi^0$)	[*rr*]	(5.1 $\pm$1.4) $\times 10^{-3}$		483
$\overline{K}^*(892)^0 \pi^+ \pi^-$ 3-body $\times$ B($\overline{K}^{*0} \to \overline{K}^0 \pi^0$)		(4.8 $\pm$1.1) $\times 10^{-3}$		683
$\overline{K}^0 \pi^+ \pi^- \pi^0$ nonresonant		(2.1 $\pm$2.1) %		812
$K^- \pi^+ \pi^0 \pi^0$		(15 $\pm$5) %		815
$K^- \pi^+ \pi^+ \pi^- \pi^0$		(4.0 $\pm$0.4) %		771
$\overline{K}^*(892)^0 \pi^+ \pi^- \pi^0$ $\times$ B($\overline{K}^{*0} \to K^- \pi^+$)		(1.2 $\pm$0.6) %		641
$\overline{K}^*(892)^0 \eta$ $\times$ B($\overline{K}^{*0} \to K^- \pi^+$) $\times$ B($\eta \to \pi^+ \pi^- \pi^0$)		(2.9 $\pm$0.8) $\times 10^{-3}$		580
$K^- \pi^+ \omega \times$ B($\omega \to \pi^+ \pi^- \pi^0$)		(2.7 $\pm$0.5) %		605
$\overline{K}^*(892)^0 \omega$ $\times$ B($\overline{K}^{*0} \to K^- \pi^+$) $\times$ B($\omega \to \pi^+ \pi^- \pi^0$)		(7 $\pm$3) $\times 10^{-3}$		406
$\overline{K}^0 \pi^+ \pi^+ \pi^- \pi^-$		(5.8 $\pm$1.6) $\times 10^{-3}$		768
$\overline{K}^0 \pi^+ \pi^- \pi^0 \pi^0 (\pi^0)$		(10.6 $^{+7.3}_{-3.0}$) %		771
$\overline{K}^0 K^+ K^-$		(9.4 $\pm$1.0) $\times 10^{-3}$		544
$\overline{K}^0 \phi \times$ B($\phi \to K^+ K^-$)		(4.3 $\pm$0.5) $\times 10^{-3}$		520
$\overline{K}^0 K^+ K^-$ non-ϕ		(5.1 $\pm$0.8) $\times 10^{-3}$		544
$K^0_S K^0_S K^0_S$		(8.3 $\pm$1.5) $\times 10^{-4}$		538
$K^+ K^- K^- \pi^+$		(2.1 $\pm$0.5) $\times 10^{-4}$		434
$K^+ K^- \overline{K}^0 \pi^0$		(7.2 $^{+4.8}_{-3.5}$) $\times 10^{-3}$		435

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.)

$\overline{K}^0 \eta$		(7.0 $\pm$1.0) $\times 10^{-3}$		772
$\overline{K}^0 \rho^0$		(1.21$\pm$0.17) %		676
$K^- \rho^+$		(10.8 $\pm$0.9) %	S=1.2	678
$\overline{K}^0 \omega$		(2.1 $\pm$0.4) %		670
$\overline{K}^0 \eta'(958)$		(1.71$\pm$0.26) %		565
$\overline{K}^0 f_0(980)$		(5.7 $\pm$1.6) $\times 10^{-3}$		549
$\overline{K}^0 \phi$		(8.6 $\pm$1.0) $\times 10^{-3}$		520
$K^- a_1(1260)^+$		(7.3 $\pm$1.1) %		327

$\overline{K}^0 a_1(1260)^0$		$<$ 1.9	%	CL=90%	322
$\overline{K}^0 f_2(1270)$		(4.1 $\pm$1.5)	$\times 10^{-3}$		263
$K^- a_2(1320)^+$		$<$ 2	$\times 10^{-3}$	CL=90%	197
$\overline{K}^0 f_0(1370)$		(6.9 $\pm$2.1)	$\times 10^{-3}$		–
$K^*(892)^- \pi^+$		(5.0 $\pm$0.4)	%	S=1.2	711
$\overline{K}^*(892)^0 \pi^0$		(3.1 $\pm$0.4)	%		709
$\overline{K}^*(892)^0 \pi^+ \pi^-$ total		(2.2 $\pm$0.5)	%		683
$\overline{K}^*(892)^0 \pi^+ \pi^-$ 3-body		(1.42$\pm$0.32)	%		683
$K^- \pi^+ \rho^0$ total		(6.3 $\pm$0.4)	%		612
$K^- \pi^+ \rho^0$ 3-body		(4.7 $\pm$2.1)	$\times 10^{-3}$		612
$\overline{K}^*(892)^0 \rho^0$		(1.46$\pm$0.32)	%		418
$\overline{K}^*(892)^0 \rho^0$ transverse		(1.5 $\pm$0.5)	%		418
$\overline{K}^*(892)^0 \rho^0$ *S*-wave		(2.8 $\pm$0.6)	%		418
$\overline{K}^*(892)^0 \rho^0$ *S*-wave long.		$<$ 3	$\times 10^{-3}$	CL=90%	418
$\overline{K}^*(892)^0 \rho^0$ *P*-wave		$<$ 3	$\times 10^{-3}$	CL=90%	418
$\overline{K}^*(892)^0 \rho^0$ *D*-wave		(1.9 $\pm$0.6)	%		418
$K^*(892)^- \rho^+$		(6.1 $\pm$2.4)	%		422
$K^*(892)^- \rho^+$ longitudinal		(2.9 $\pm$1.2)	%		422
$K^*(892)^- \rho^+$ transverse		(3.2 $\pm$1.8)	%		422
$K^*(892)^- \rho^+$ *P*-wave		$<$ 1.5	%	CL=90%	422
$K^- \pi^+ f_0(980)$		$<$ 1.1	%	CL=90%	459
$\overline{K}^*(892)^0 f_0(980)$		$<$ 7	$\times 10^{-3}$	CL=90%	–
$K_1(1270)^- \pi^+$	[*rr*]	(1.06$\pm$0.29)	%		483
$K_1(1400)^- \pi^+$		$<$ 1.2	%	CL=90%	386
$\overline{K}_1(1400)^0 \pi^0$		$<$ 3.7	%	CL=90%	387
$K^*(1410)^- \pi^+$		$<$ 1.2	%	CL=90%	378
$K_0^*(1430)^- \pi^+$		(1.04$\pm$0.26)	%		364
$K_2^*(1430)^- \pi^+$		$<$ 8	$\times 10^{-3}$	CL=90%	367
$\overline{K}_2^*(1430)^0 \pi^0$		$<$ 4	$\times 10^{-3}$	CL=90%	363
$\overline{K}^*(892)^0 \pi^+ \pi^- \pi^0$		(1.8 $\pm$0.9)	%		641
$\overline{K}^*(892)^0 \eta$		(1.9 $\pm$0.5)	%		580
$K^- \pi^+ \omega$		(3.0 $\pm$0.6)	%		605
$\overline{K}^*(892)^0 \omega$		(1.1 $\pm$0.4)	%		406
$K^- \pi^+ \eta'(958)$		(7.0 $\pm$1.8)	$\times 10^{-3}$		479
$\overline{K}^*(892)^0 \eta'(958)$		$<$ 1.0	$\times 10^{-3}$	CL=90%	99

Pionic modes

$\pi^+ \pi^-$	(1.52$\pm$0.09)	$\times 10^{-3}$		922
$\pi^0 \pi^0$	(8.4 $\pm$2.2)	$\times 10^{-4}$		922
$\pi^+ \pi^- \pi^0$	(1.6 $\pm$1.1)	%	S=2.7	907
$\pi^+ \pi^+ \pi^- \pi^-$	(7.3 $\pm$0.5)	$\times 10^{-3}$		879
$\pi^+ \pi^+ \pi^- \pi^- \pi^0$	(1.9 $\pm$0.4)	%		844
$\pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^-$	(4.0 $\pm$3.0)	$\times 10^{-4}$		795

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

K^+K^-		(4.25 ± 0.16)	$\times 10^{-3}$		791
$K^0\overline{K}^0$		$(6.5\ \pm1.8\ )$	$\times 10^{-4}$	S=1.2	788
$K^0K^-\pi^+$		$(6.4\ \pm1.0\ )$	$\times 10^{-3}$	S=1.1	739
$\quad\overline{K}^*(892)^0K^0$ $\times$ B($\overline{K}^{*0}\to K^-\pi^+$)		<1.1	$\times 10^{-3}$	CL=90%	605
$\quad K^*(892)^+K^-$ $\times$ B($K^{*+}\to K^0\pi^+$)		$(2.3\ \pm0.5\ )$	$\times 10^{-3}$		610
$\quad K^0K^-\pi^+$ nonresonant		$(2.3\ \pm2.3\ )$	$\times 10^{-3}$		739
$\overline{K}^0K^+\pi^-$		$(5.0\ \pm1.0\ )$	$\times 10^{-3}$		739
$\quad K^*(892)^0\overline{K}^0$ $\times$ B($K^{*0}\to K^+\pi^-$)		<5	$\times 10^{-4}$	CL=90%	605
$\quad K^*(892)^-K^+$ $\times$ B($K^{*-}\to\overline{K}^0\pi^-$)		$(1.2\ \pm0.7\ )$	$\times 10^{-3}$		610
$\quad\overline{K}^0K^+\pi^-$ nonresonant		$(3.8\ ^{+2.3}_{-1.9})$	$\times 10^{-3}$		739
$K^+K^-\pi^0$		$(1.3\ \pm0.4\ )$	$\times 10^{-3}$		742
$K^0_SK^0_S\pi^0$		<5.9	$\times 10^{-4}$		739
$K^+K^-\pi^+\pi^-$	[uu]	(2.50 ± 0.23)	$\times 10^{-3}$		676
$\quad\phi\pi^+\pi^-$ $\times$ B($\phi\to K^+K^-$)		$(5.3\ \pm1.4\ )$	$\times 10^{-4}$		614
$\qquad\phi\rho^0$ $\times$ B($\phi\to K^+K^-$)		$(3.0\ \pm1.6\ )$	$\times 10^{-4}$		260
$\quad K^+K^-\rho^0$ 3-body		$(9.0\ \pm2.3\ )$	$\times 10^{-4}$		309
$\quad K^*(892)^0K^-\pi^+$+c.c. $\times$ B($K^{*0}\to K^+\pi^-$)	[vv]	<5	$\times 10^{-4}$		528
$\quad K^*(892)^0\overline{K}^*(892)^0$ $\times$ B^2($K^{*0}\to K^+\pi^-$)		$(6\ \ \pm2\ \ )$	$\times 10^{-4}$		257
$\quad K^+K^-\pi^+\pi^-$ non-ϕ		—			676
$\quad K^+K^-\pi^+\pi^-$ nonresonant		<8	$\times 10^{-4}$	CL=90%	676
$K^0\overline{K}^0\pi^+\pi^-$		$(6.8\ \pm2.7\ )$	$\times 10^{-3}$		673
$K^+K^-\pi^+\pi^-\pi^0$		$(3.1\ \pm2.0\ )$	$\times 10^{-3}$		600

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

$\overline{K}^*(892)^0K^0$		<1.6	$\times 10^{-3}$	CL=90%	605
$K^*(892)^+K^-$		$(3.5\ \pm0.8\ )$	$\times 10^{-3}$		610
$K^*(892)^0\overline{K}^0$		<8	$\times 10^{-4}$	CL=90%	605
$K^*(892)^-K^+$		$(1.8\ \pm1.0\ )$	$\times 10^{-3}$		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 ± 0.28)	$\times 10^{-3}$		614
$\quad\phi\rho^0$		$(6\ \ \pm3\ \ )$	$\times 10^{-4}$		260
$\quad\phi\pi^+\pi^-$ 3-body		$(7\ \ \pm5\ \ )$	$\times 10^{-4}$		614
$K^*(892)^0K^-\pi^+$ + c.c.	[vv]	<7	$\times 10^{-4}$	CL=90%	–
$\quad K^*(892)^0\overline{K}^*(892)^0$		$(1.4\ \pm0.5\ )$	$\times 10^{-3}$		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, or Lepton Family number (*LF*) violating modes

$K^+\ell^-\overline{\nu}_\ell$(via $\overline{D}^0$)	*C2M*		$<$	1.7	$\times 10^{-4}$	CL=90%	–
$K^+\pi^-$	*DC*			(1.46±0.30)	$\times 10^{-4}$		861
$K^+\pi^-$ (via $\overline{D}^0$)	*C2M*		$<$	1.6	$\times 10^{-5}$	CL=95%	861
$K^+\pi^-\pi^+\pi^-$	*DC*			(1.9 ±2.6)	$\times 10^{-4}$		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
$\pi^0e^+e^-$	*C1*		$<$	4.5	$\times 10^{-5}$	CL=90%	927
$\pi^0\mu^+\mu^-$	*C1*		$<$	1.8	$\times 10^{-4}$	CL=90%	915
ηe^+e^-	*C1*		$<$	1.1	$\times 10^{-4}$	CL=90%	852
$\eta\mu^+\mu^-$	*C1*		$<$	5.3	$\times 10^{-4}$	CL=90%	838
$\rho^0e^+e^-$	*C1*		$<$	1.0	$\times 10^{-4}$	CL=90%	773
$\rho^0\mu^+\mu^-$	*C1*		$<$	2.3	$\times 10^{-4}$	CL=90%	756
ωe^+e^-	*C1*		$<$	1.8	$\times 10^{-4}$	CL=90%	768
$\omega\mu^+\mu^-$	*C1*		$<$	8.3	$\times 10^{-4}$	CL=90%	751
ϕe^+e^-	*C1*		$<$	5.2	$\times 10^{-5}$	CL=90%	654
$\phi\mu^+\mu^-$	*C1*		$<$	4.1	$\times 10^{-4}$	CL=90%	631
$\overline{K}^0e^+e^-$		[ss]	$<$	1.1	$\times 10^{-4}$	CL=90%	866
$\overline{K}^0\mu^+\mu^-$		[ss]	$<$	2.6	$\times 10^{-4}$	CL=90%	852
$\overline{K}^*(892)^0e^+e^-$		[ss]	$<$	1.4	$\times 10^{-4}$	CL=90%	717
$\overline{K}^*(892)^0\mu^+\mu^-$		[ss]	$<$	1.18	$\times 10^{-3}$	CL=90%	698
$\pi^+\pi^-\pi^0\mu^+\mu^-$	*C1*		$<$	8.1	$\times 10^{-4}$	CL=90%	863
$\mu^\pm e^\mp$	*LF*	[ee]	$<$	8.1	$\times 10^{-6}$	CL=90%	929
$\pi^0e^\pm\mu^\mp$	*LF*	[ee]	$<$	8.6	$\times 10^{-5}$	CL=90%	924
$\eta e^\pm\mu^\mp$	*LF*	[ee]	$<$	1.0	$\times 10^{-4}$	CL=90%	848
$\rho^0e^\pm\mu^\mp$	*LF*	[ee]	$<$	4.9	$\times 10^{-5}$	CL=90%	769
$\omega e^\pm\mu^\mp$	*LF*	[ee]	$<$	1.2	$\times 10^{-4}$	CL=90%	764
$\phi e^\pm\mu^\mp$	*LF*	[ee]	$<$	3.4	$\times 10^{-5}$	CL=90%	648
$\overline{K}^0e^\pm\mu^\mp$	*LF*	[ee]	$<$	1.0	$\times 10^{-4}$	CL=90%	862
$\overline{K}^*(892)^0e^\pm\mu^\mp$	*LF*	[ee]	$<$	1.0	$\times 10^{-4}$	CL=90%	712

$D^*(2007)^0$

$I(J^P) = \frac{1}{2}(1^-)$
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)
$m_{D^*(2010)^+} - m_{D^0} = 145.436 \pm 0.016$ MeV
Full width $\Gamma < 0.131$ MeV, CL = 90%

$D^*(2010)^-$ 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±0.4) %	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