

CHARMED MESONS ($C = \pm 1$)

$D^+ = c\bar{d}$, $D^0 = c\bar{u}$, $\bar{D}^0 = \bar{c}u$, $D^- = \bar{c}d$, 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

$$c\tau = 315 \mu\text{m}$$

c-quark decays

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

CP -violation decay-rate asymmetries

$$A_{CP}(K^+ K^- \pi^\pm) = -0.017 \pm 0.027$$

$$A_{CP}(K^\pm K^{*0}) = -0.02 \pm 0.05$$

$$A_{CP}(\phi \pi^\pm) = -0.014 \pm 0.033$$

$$A_{CP}(\pi^+ \pi^- \pi^\pm) = -0.02 \pm 0.04$$

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

$$r_v = 1.82 \pm 0.09$$

$$r_2 = 0.78 \pm 0.07$$

$$r_3 = 0.0 \pm 0.4$$

$$\Gamma_L/\Gamma_T = 1.14 \pm 0.08$$

$$\Gamma_+/\Gamma_- = 0.21 \pm 0.04 \quad (S = 1.3)$$

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

D^+ DECAY MODES	Fraction (Γ_i/Γ)	Scale factor/ Confidence level	<i>p</i> (MeV/c)
Inclusive modes			
$e^+ \text{anything}$	(17.2 \pm 1.9) %		—
$K^- \text{anything}$	(24.2 \pm 2.8) %	$S=1.4$	—
$\bar{K}^0 \text{anything} + K^0 \text{anything}$	(59 \pm 7) %		—
$K^+ \text{anything}$	(5.8 \pm 1.4) %		—
$\eta \text{ anything}$	[nn] < 13 %	CL=90%	—

Leptonic and semileptonic modes

$\mu^+ \nu_\mu$	(8 \pm 17/5) $\times 10^{-4}$	932
$\bar{K}^0 \ell^+ \nu_\ell$	[oo] (6.8 \pm 0.8) %	-
$\bar{K}^0 e^+ \nu_e$	(6.7 \pm 0.9) %	868
$\bar{K}^0 \mu^+ \nu_\mu$	(7.0 \pm 3.0) %	865
$K^- \pi^+ e^+ \nu_e$	(4.1 \pm 0.9) %	863
$\bar{K}^*(892)^0 e^+ \nu_e$	(3.2 \pm 0.33) %	720
$\times B(\bar{K}^{*0} \rightarrow K^- \pi^+)$		
$K^- \pi^+ e^+ \nu_e$ nonresonant	< 7 $\times 10^{-3}$ CL=90%	863
$K^- \pi^+ \mu^+ \nu_\mu$	(3.2 \pm 0.4) %	S=1.1 851
$\bar{K}^*(892)^0 \mu^+ \nu_\mu$	(2.9 \pm 0.4) %	715
$\times B(\bar{K}^{*0} \rightarrow K^- \pi^+)$		
$K^- \pi^+ \mu^+ \nu_\mu$ nonresonant	(2.7 \pm 1.1) $\times 10^{-3}$	851
$(\bar{K}^*(892)\pi)^0 e^+ \nu_e$	< 1.2 %	CL=90% 714
$(\bar{K}\pi\pi)^0 e^+ \nu_e$ non- $\bar{K}^*(892)$	< 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.

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

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

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

$\bar{K}^0 \pi^+ \pi^+ \pi^+ \pi^- \pi^-$	(8 ± 7) × 10 ⁻⁴	714
$K^- \pi^+ \pi^+ \pi^+ \pi^- \pi^0$	(2.0 ± 1.8) × 10 ⁻³	718
$\bar{K}^0 \bar{K}^0 K^+$	(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.

$\bar{K}^0 \rho^+$	(6.6 ± 2.5) %	680
$\bar{K}^0 a_1(1260)^+$	(8.0 ± 1.7) %	328
$\bar{K}^0 a_2(1320)^+$	< 3 × 10 ⁻³ CL=90%	199
$\bar{K}^*(892)^0 \pi^+$	(1.90 ± 0.19) %	712
$\bar{K}^*(892)^0 \rho^+$ total	[rr] (2.1 ± 1.3) %	423
$\bar{K}^*(892)^0 \rho^+$ S-wave	[rr] (1.6 ± 1.6) %	423
$\bar{K}^*(892)^0 \rho^+$ P-wave	< 1 × 10 ⁻³ CL=90%	423
$\bar{K}^*(892)^0 \rho^+$ D-wave	(10 ± 7) × 10 ⁻³	423
$\bar{K}^*(892)^0 \rho^+$ D-wave longitudinal	< 7 × 10 ⁻³ CL=90%	423
$\bar{K}_1(1270)^0 \pi^+$	< 7 × 10 ⁻³ CL=90%	487
$\bar{K}_1(1400)^0 \pi^+$	(4.9 ± 1.2) %	390
$\bar{K}^*(1410)^0 \pi^+$	< 7 × 10 ⁻³ CL=90%	382
$\bar{K}_0^*(1430)^0 \pi^+$	(3.7 ± 0.4) %	368
$\bar{K}^*(1680)^0 \pi^+$	(1.43 ± 0.30) %	65
$\bar{K}^*(892)^0 \pi^+ \pi^0$ total	(6.7 ± 1.4) %	687
$\bar{K}^*(892)^0 \pi^+ \pi^0$ 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
$\bar{K}^0 \rho^0 \pi^+$ total	(4.2 ± 0.9) %	614
$\bar{K}^0 \rho^0 \pi^+$ 3-body	(5 ± 5) × 10 ⁻³	614
$\bar{K}^0 f_0(980) \pi^+$	< 5 × 10 ⁻³ CL=90%	461
$\bar{K}^*(892)^0 \pi^+ \pi^+ \pi^-$	(8.1 ± 3.4) × 10 ⁻³ S=1.7	642
$\bar{K}^*(892)^0 \rho^0 \pi^+$	(2.9 ± 1.7) × 10 ⁻³ S=1.8	242
$\bar{K}^*(892)^0 \pi^+ \pi^+ \pi^-$ no- ρ	(4.3 ± 1.7) × 10 ⁻³	642
$K^- \rho^0 \pi^+ \pi^+$	(3.1 ± 0.9) × 10 ⁻³	529

Pionic modes

$\pi^+ \pi^0$	(2.5 ± 0.7) × 10 ⁻³	925
$\pi^+ \pi^+ \pi^-$	(3.6 ± 0.4) × 10 ⁻³	908
$\rho^0 \pi^+$	(1.05 ± 0.31) × 10 ⁻³	769
$\pi^+ \pi^+ \pi^-$ nonresonant	(2.2 ± 0.4) × 10 ⁻³	908
$\pi^+ \pi^+ \pi^- \pi^0$	(1.9 ± 1.5) %	882
$\eta \pi^+ \times B(\eta \rightarrow \pi^+ \pi^- \pi^0)$	(6.9 ± 1.4) × 10 ⁻⁴	848
$\omega \pi^+ \times B(\omega \rightarrow \pi^+ \pi^- \pi^0)$	< 6 × 10 ⁻³ CL=90%	764
$\pi^+ \pi^+ \pi^+ \pi^- \pi^-$	(2.1 ± 0.4) × 10 ⁻³	845
$\pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^0$	(2.9 ± 2.9) × 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 $K\bar{K}$ pair

$K^+\bar{K}^0$	$(7.4 \pm 1.0) \times 10^{-3}$	792
$K^+K^-\pi^+$	$[qq] (8.7 \pm 0.7) \times 10^{-3}$	744
$\phi\pi^+ \times B(\phi \rightarrow K^+K^-)$	$(3.0 \pm 0.3) \times 10^{-3}$	647
$K^+\bar{K}^*(892)^0$	$(2.8 \pm 0.4) \times 10^{-3}$	610
$\times B(\bar{K}^{*0} \rightarrow K^-\pi^+)$		
$K^+K^-\pi^+$ nonresonant	$(4.5 \pm 0.9) \times 10^{-3}$	744
$K^0\bar{K}^0\pi^+$	—	741
$K^*(892)^+\bar{K}^0$	$(2.1 \pm 1.0) \%$	611
$\times B(K^{*+} \rightarrow K^0\pi^+)$		
$K^+K^-\pi^+\pi^0$	—	682
$\phi\pi^+\pi^0 \times B(\phi \rightarrow K^+K^-)$	$(1.1 \pm 0.5) \%$	619
$\phi\rho^+ \times B(\phi \rightarrow K^+K^-)$	$< 7 \times 10^{-3}$	CL=90% 268
$K^+K^-\pi^+\pi^0$ non- ϕ	$(1.5 \pm 0.7) \%$	682
$K^+\bar{K}^0\pi^+\pi^-$	$< 2 \%$	CL=90% 678
$K^0K^-\pi^+\pi^+$	$(1.0 \pm 0.6) \%$	678
$K^*(892)^+\bar{K}^*(892)^0$	$(1.2 \pm 0.5) \%$	273
$\times B^2(K^{*+} \rightarrow K^0\pi^+)$		
$K^0K^-\pi^+\pi^+$ non- $K^{*+}\bar{K}^0$	$< 7.9 \times 10^{-3}$	CL=90% 678
$K^+K^-\pi^+\pi^-\pi^-$	—	600
$\phi\pi^+\pi^+\pi^-$	$< 1 \times 10^{-3}$	CL=90% 565
$\times B(\phi \rightarrow K^+K^-)$		
$K^+K^-\pi^+\pi^+\pi^-$ 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
$\phi\pi^+\pi^0$	$(2.3 \pm 1.0) \%$	619
$\phi\rho^+$	$< 1.4 \%$	CL=90% 268
$\phi\pi^+\pi^+\pi^-$	$< 2 \times 10^{-3}$	CL=90% 565
$K^+\bar{K}^*(892)^0$	$(4.2 \pm 0.5) \times 10^{-3}$	610
$K^*(892)^+\bar{K}^0$	$(3.2 \pm 1.5) \%$	611
$K^*(892)^+\bar{K}^*(892)^0$	$(2.6 \pm 1.1) \%$	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

$K^+ \pi^+ \pi^-$	<i>DC</i>	$(6.8 \pm 1.5) \times 10^{-4}$	845
$K^+ \rho^0$	<i>DC</i>	$(2.5 \pm 1.2) \times 10^{-4}$	681
$K^*(892)^0 \pi^+$	<i>DC</i>	$(3.6 \pm 1.6) \times 10^{-4}$	712
$K^+ \pi^+ \pi^-$ nonresonant	<i>DC</i>	$(2.4 \pm 1.2) \times 10^{-4}$	845
$K^+ K^+ K^-$	<i>DC</i>	$< 1.4 \times 10^{-4}$	CL=90% 550
ϕK^+	<i>DC</i>	$< 1.3 \times 10^{-4}$	CL=90% 527
$\pi^+ e^+ e^-$	<i>C1</i>	$< 5.2 \times 10^{-5}$	CL=90% 929
$\pi^+ \mu^+ \mu^-$	<i>C1</i>	$< 1.5 \times 10^{-5}$	CL=90% 917
$\rho^+ \mu^+ \mu^-$	<i>C1</i>	$< 5.6 \times 10^{-4}$	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
$\pi^+ e^\pm \mu^\mp$	<i>LF</i>	$[ee] < 3.4 \times 10^{-5}$	CL=90% 926
$K^+ e^\pm \mu^\mp$	<i>LF</i>	$[ee] < 6.8 \times 10^{-5}$	CL=90% 866
$\pi^- e^+ e^+$	<i>L</i>	$< 9.6 \times 10^{-5}$	CL=90% 929
$\pi^- \mu^+ \mu^+$	<i>L</i>	$< 1.7 \times 10^{-5}$	CL=90% 917
$\pi^- e^+ \mu^+$	<i>L</i>	$< 5.0 \times 10^{-5}$	CL=90% 926
$\rho^- \mu^+ \mu^+$	<i>L</i>	$< 5.6 \times 10^{-4}$	CL=90% 759
$K^- e^+ e^+$	<i>L</i>	$< 1.2 \times 10^{-4}$	CL=90% 869
$K^- \mu^+ \mu^-$	<i>L</i>	$< 1.2 \times 10^{-4}$	CL=90% 856
$K^- e^+ \mu^+$	<i>L</i>	$< 1.3 \times 10^{-4}$	CL=90% 866
$K^*(892)^- \mu^+ \mu^+$	<i>L</i>	$< 8.5 \times 10^{-4}$	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

$$c\tau = 123.7 \text{ }\mu\text{m}$$

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

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

$$\Gamma(K^+ \ell^- \bar{\nu}_\ell \text{ (via } \overline{D^0})) / \Gamma(K^- \ell^+ \nu_\ell) < 0.005, \text{ CL} = 90\%$$

$$\Gamma(K^+ \pi^- \text{ (via } \overline{D^0})) / \Gamma(K^- \pi^+) < 4.1 \times 10^{-4}, \text{ CL} = 95\%$$

***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	<i>p</i> (MeV/c)
Inclusive modes			
e^+ anything	(6.75 \pm 0.29) %		—
μ^+ anything	(6.6 \pm 0.8) %		—
K^- anything	(53 \pm 4) %	S=1.3	—
\overline{K}^0 anything + K^0 anything	(42 \pm 5) %		—
K^+ anything	(3.4 \pm 0.6) %		—
η anything	[nn] < 13 %	CL=90%	—
Semileptonic modes			
$K^- \ell^+ \nu_\ell$	[oo] (3.47 \pm 0.17) %	S=1.3	867
$K^- e^+ \nu_e$	(3.64 \pm 0.18) %		867
$K^- \mu^+ \nu_\mu$	(3.22 \pm 0.17) %		863
$K^- \pi^0 e^+ \nu_e$	(1.6 \pm 1.3) %		861
$\overline{K}^0 \pi^- e^+ \nu_e$	(2.8 \pm 1.7) %		860
$\overline{K}^*(892)^- e^+ \nu_e$ $\times B(K^{*-} \rightarrow \overline{K}^0 \pi^-)$	(1.35 \pm 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 \pm 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 \pm 0.33) %	719
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Hadronic modes with a \bar{K} or $\bar{K}K\bar{K}$

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

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

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

$\bar{K}^0 a_1(1260)^0$	< 1.9 %	CL=90%	322
$\bar{K}^0 f_2(1270)$	(4.1 \pm 1.5) $\times 10^{-3}$		263
$K^- a_2(1320)^+$	< 2 $\times 10^{-3}$	CL=90%	197
$\bar{K}^0 f_0(1370)$	(6.9 \pm 2.1) $\times 10^{-3}$		-
$K^*(892)^- \pi^+$	(5.0 \pm 0.4) %	S=1.2	711
$\bar{K}^*(892)^0 \pi^0$	(3.1 \pm 0.4) %		709
$\bar{K}^*(892)^0 \pi^+ \pi^-$ total	(2.2 \pm 0.5) %		683
$\bar{K}^*(892)^0 \pi^+ \pi^-$ 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
$\bar{K}^*(892)^0 \rho^0$	(1.46 \pm 0.32) %		418
$\bar{K}^*(892)^0 \rho^0$ transverse	(1.5 \pm 0.5) %		418
$\bar{K}^*(892)^0 \rho^0$ S-wave	(2.8 \pm 0.6) %		418
$\bar{K}^*(892)^0 \rho^0$ S-wave long.	< 3 $\times 10^{-3}$	CL=90%	418
$\bar{K}^*(892)^0 \rho^0$ P-wave	< 3 $\times 10^{-3}$	CL=90%	418
$\bar{K}^*(892)^0 \rho^0$ 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
$\bar{K}^*(892)^0 f_0(980)$	< 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
$\bar{K}_1(1400)^0 \pi^0$	< 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
$\bar{K}_2^*(1430)^0 \pi^0$	< 4 $\times 10^{-3}$	CL=90%	363
$\bar{K}^*(892)^0 \pi^+ \pi^- \pi^0$	(1.8 \pm 0.9) %		641
$\bar{K}^*(892)^0 \eta$	(1.9 \pm 0.5) %		580
$K^- \pi^+ \omega$	(3.0 \pm 0.6) %		605
$\bar{K}^*(892)^0 \omega$	(1.1 \pm 0.4) %		406
$K^- \pi^+ \eta'(958)$	(7.0 \pm 1.8) $\times 10^{-3}$		479
$\bar{K}^*(892)^0 \eta'(958)$	< 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 $K\bar{K}$ pair

$K^+ K^-$	$(4.25 \pm 0.16) \times 10^{-3}$	791
$K^0 \bar{K}^0$	$(6.5 \pm 1.8) \times 10^{-4}$	S=1.2 788
$K^0 K^- \pi^+$	$(6.4 \pm 1.0) \times 10^{-3}$	S=1.1 739
$\bar{K}^*(892)^0 K^0$	$< 1.1 \times 10^{-3}$	CL=90% 605
$\times B(\bar{K}^{*0} \rightarrow K^- \pi^+)$		
$K^*(892)^+ K^-$	$(2.3 \pm 0.5) \times 10^{-3}$	610
$\times B(K^{*+} \rightarrow K^0 \pi^+)$		
$K^0 K^- \pi^+ \text{nonresonant}$	$(2.3 \pm 2.3) \times 10^{-3}$	739
$\bar{K}^0 K^+ \pi^-$	$(5.0 \pm 1.0) \times 10^{-3}$	739
$K^*(892)^0 \bar{K}^0$	$< 5 \times 10^{-4}$	CL=90% 605
$\times B(K^{*0} \rightarrow K^+ \pi^-)$		
$K^*(892)^- K^+$	$(1.2 \pm 0.7) \times 10^{-3}$	610
$\times B(K^{*-} \rightarrow \bar{K}^0 \pi^-)$		
$\bar{K}^0 K^+ \pi^- \text{nonresonant}$	$(3.8 \pm 2.3) \times 10^{-3}$	739
$K^+ K^- \pi^0$	$(1.3 \pm 0.4) \times 10^{-3}$	742
$K_S^0 K_S^0 \pi^0$	$< 5.9 \times 10^{-4}$	739
$K^+ K^- \pi^+ \pi^-$	[uu] $(2.50 \pm 0.23) \times 10^{-3}$	676
$\phi \pi^+ \pi^- \times B(\phi \rightarrow K^+ K^-)$	$(5.3 \pm 1.4) \times 10^{-4}$	614
$\phi \rho^0 \times B(\phi \rightarrow K^+ K^-)$	$(3.0 \pm 1.6) \times 10^{-4}$	260
$K^+ K^- \rho^0 \text{3-body}$	$(9.0 \pm 2.3) \times 10^{-4}$	309
$K^*(892)^0 K^- \pi^+ + \text{c.c.}$	[vv] $< 5 \times 10^{-4}$	528
$\times B(K^{*0} \rightarrow K^+ \pi^-)$		
$K^*(892)^0 \bar{K}^*(892)^0$	$(6 \pm 2) \times 10^{-4}$	257
$\times B^2(K^{*0} \rightarrow K^+ \pi^-)$		
$K^+ K^- \pi^+ \pi^- \text{non-}\phi$	—	676
$K^+ K^- \pi^+ \pi^- \text{nonresonant}$	$< 8 \times 10^{-4}$	CL=90% 676
$K^0 \bar{K}^0 \pi^+ \pi^-$	$(6.8 \pm 2.7) \times 10^{-3}$	673
$K^+ K^- \pi^+ \pi^- \pi^0$	$(3.1 \pm 2.0) \times 10^{-3}$	600

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

$\bar{K}^*(892)^0 K^0$	$< 1.6 \times 10^{-3}$	CL=90% 605
$K^*(892)^+ K^-$	$(3.5 \pm 0.8) \times 10^{-3}$	610
$K^*(892)^0 \bar{K}^0$	$< 8 \times 10^{-4}$	CL=90% 605
$K^*(892)^- K^+$	$(1.8 \pm 1.0) \times 10^{-3}$	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
$\phi \pi^+ \pi^-$	$(1.07 \pm 0.28) \times 10^{-3}$	614
$\phi \rho^0$	$(6 \pm 3) \times 10^{-4}$	260
$\phi \pi^+ \pi^- \text{3-body}$	$(7 \pm 5) \times 10^{-4}$	614
$K^*(892)^0 K^- \pi^+ + \text{c.c.}$	[vv] $< 7 \times 10^{-4}$	CL=90% —
$K^*(892)^0 \bar{K}^*(892)^0$	$(1.4 \pm 0.5) \times 10^{-3}$	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
$\bar{K}^*(892)^0 \gamma$	< 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**

$K^+ \ell^- \bar{\nu}_\ell$ (via \bar{D}^0)	C2M	< 1.7	$\times 10^{-4}$	CL=90%	-
$K^+ \pi^-$	DC	(1.46 ± 0.30)	$\times 10^{-4}$		861
$K^+ \pi^-$ (via \bar{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 \bar{D}^0)	C2M	< 4	$\times 10^{-4}$	CL=90%	812
$K^+ \pi^-$ or		< 1.0	$\times 10^{-3}$	CL=90%	-
$K^+ \pi^- \pi^+ \pi^-$ (via \bar{D}^0)					
μ^- anything (via \bar{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
$\rho^0 e^+ e^-$	C1	< 1.0	$\times 10^{-4}$	CL=90%	773
$\rho^0 \mu^+ \mu^-$	C1	< 2.3	$\times 10^{-4}$	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
$\phi e^+ e^-$	C1	< 5.2	$\times 10^{-5}$	CL=90%	654
$\phi \mu^+ \mu^-$	C1	< 4.1	$\times 10^{-4}$	CL=90%	631
$\bar{K}^0 e^+ e^-$	[ss]	< 1.1	$\times 10^{-4}$	CL=90%	866
$\bar{K}^0 \mu^+ \mu^-$	[ss]	< 2.6	$\times 10^{-4}$	CL=90%	852
$\bar{K}^*(892)^0 e^+ e^-$	[ss]	< 1.4	$\times 10^{-4}$	CL=90%	717
$\bar{K}^*(892)^0 \mu^+ \mu^-$	[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
$\pi^0 e^\pm \mu^\mp$	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
$\rho^0 e^\pm \mu^\mp$	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
$\bar{K}^0 e^\pm \mu^\mp$	LF	[ee] < 1.0	$\times 10^{-4}$	CL=90%	862
$\bar{K}^*(892)^0 e^\pm \mu^\mp$	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 ($S = 1.1$)

$$m_{D^{*0}} - m_{D^0} = 142.12 \pm 0.07 \text{ MeV}$$

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)[±]

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

Mass $m = 2010.0 \pm 0.5$ MeV ($S = 1.1$)

$$m_{D^*(2010)^+} - m_{D^+} = 140.64 \pm 0.10 \text{ MeV} \quad (S = 1.1)$$

$$m_{D^*(2010)^+} - m_{D^0} = 145.436 \pm 0.016 \text{ MeV}$$

Full width $\Gamma < 0.131$ MeV, CL = 90%

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

D*(2010)[±] 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

D₁(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.

D₁(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