

CHARMED MESONS

($C = \pm 1$)

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

 D^\pm

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

$$\text{Mass } m = 1869.3 \pm 0.5 \text{ MeV} \quad (S = 1.1)$$

$$\text{Mean life } \tau = (1.057 \pm 0.015) \times 10^{-12} \text{ s}$$

$$c\tau = 317 \text{ } \mu\text{m}$$

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

$$r_2 = 0.72 \pm 0.09$$

$$r_\nu = 1.85 \pm 0.12$$

$$\Gamma_L/\Gamma_T = 1.23 \pm 0.13$$

$$\Gamma_+/\Gamma_- = 0.16 \pm 0.04$$

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 \pm 1.9) %		—
K^- anything	(24.2 \pm 2.8) %	S=1.4	—
\bar{K}^0 anything + K^0 anything	(59 \pm 7) %		—
K^+ anything	(5.8 \pm 1.4) %		—
η anything	[nn] < 13 %	CL=90%	—

Leptonic and semileptonic modes

$\mu^+ \nu_\mu$	< 7.2	$\times 10^{-4}$	CL=90%	932
$\overline{K}^0 \ell^+ \nu_\ell$	[∞]	(6.8 \pm 0.8) %		868
$\overline{K}^0 e^+ \nu_e$		(6.7 \pm 0.9) %		868
$\overline{K}^0 \mu^+ \nu_\mu$		(7.0 $\begin{smallmatrix} +3.0 \\ -2.0 \end{smallmatrix}$) %		865
$K^- \pi^+ e^+ \nu_e$		(4.1 $\begin{smallmatrix} +0.9 \\ -0.7 \end{smallmatrix}$) %		863
$\overline{K}^*(892)^0 e^+ \nu_e$		(3.2 \pm 0.33) %		720
$\times B(\overline{K}^{*0} \rightarrow K^- \pi^+)$				
$K^- \pi^+ e^+ \nu_e$ nonresonant	< 7	$\times 10^{-3}$	CL=90%	863
$K^- \pi^+ \mu^+ \nu_\mu$		(3.2 \pm 0.4) %	S=1.1	851
$\overline{K}^*(892)^0 \mu^+ \nu_\mu$		(2.9 \pm 0.4) %		715
$\times B(\overline{K}^{*0} \rightarrow K^- \pi^+)$				
$K^- \pi^+ \mu^+ \nu_\mu$ 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
$\pi^0 \ell^+ \nu_\ell$	[$\rho\rho$]	(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.

$\overline{K}^*(892)^0 \ell^+ \nu_\ell$	[∞]	(4.7 \pm 0.4) %		720
$\overline{K}^*(892)^0 e^+ \nu_e$		(4.8 \pm 0.5) %		720
$\overline{K}^*(892)^0 \mu^+ \nu_\mu$		(4.4 \pm 0.6) %	S=1.1	715
$\rho^0 e^+ \nu_e$		(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 ± 0.26) %	S=1.1	862
$K^- \pi^+ \pi^+$	[qq]	(9.0 ± 0.6) %		845
$\bar{K}^*(892)^0 \pi^+$		(1.27 ± 0.13) %		712
$\times B(\bar{K}^{*0} \rightarrow K^- \pi^+)$				
$\bar{K}_0^*(1430)^0 \pi^+$		(2.3 ± 0.3) %		368
$\times B(\bar{K}_0^*(1430)^0 \rightarrow K^- \pi^+)$				
$\bar{K}^*(1680)^0 \pi^+$		(3.7 ± 0.8) × 10 ⁻³		65
$\times B(\bar{K}^*(1680)^0 \rightarrow K^- \pi^+)$				
$K^- \pi^+ \pi^+$ nonresonant		(8.5 ± 0.8) %		845
$\bar{K}^0 \pi^+ \pi^0$	[qq]	(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
$K^- \pi^+ \pi^+ \pi^0$	[qq]	(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	[rr]	(1.2 ± 0.6) %		816
$\bar{K}^0 \pi^+ \pi^+ \pi^-$	[qq]	(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

$K^- \pi^+ \pi^+ \pi^+ \pi^-$	[qq]	$(7.2 \pm 1.0) \times 10^{-3}$	772
$\bar{K}^*(892)^0 \pi^+ \pi^+ \pi^-$		$(5.4 \pm 2.3) \times 10^{-3}$	642
$\times B(\bar{K}^{*0} \rightarrow K^- \pi^+)$			
$\bar{K}^*(892)^0 \rho^0 \pi^+$		$(1.9 \begin{smallmatrix} +1.1 \\ -1.0 \end{smallmatrix}) \times 10^{-3}$	242
$\times B(\bar{K}^{*0} \rightarrow K^- \pi^+)$			
$\bar{K}^*(892)^0 \pi^+ \pi^+ \pi^- \text{ no-}\rho$		$(2.9 \pm 1.1) \times 10^{-3}$	642
$\times B(\bar{K}^{*0} \rightarrow K^- \pi^+)$			
$K^- \rho^0 \pi^+ \pi^+$		$(3.1 \pm 0.9) \times 10^{-3}$	529
$K^- \pi^+ \pi^+ \pi^+ \pi^- \text{ nonresonant}$		$< 2.3 \times 10^{-3}$	CL=90% 772
$K^- \pi^+ \pi^+ \pi^0 \pi^0$		$(2.2 \begin{smallmatrix} +5.0 \\ -0.9 \end{smallmatrix}) \%$	775
$\bar{K}^0 \pi^+ \pi^+ \pi^- \pi^0$		$(5.4 \begin{smallmatrix} +3.0 \\ -1.4 \end{smallmatrix}) \%$	773
$\bar{K}^0 \pi^+ \pi^+ \pi^+ \pi^- \pi^-$		$(8 \pm 7) \times 10^{-4}$	714
$K^- \pi^+ \pi^+ \pi^+ \pi^- \pi^0$		$(2.0 \pm 1.8) \times 10^{-3}$	718
$\bar{K}^0 \bar{K}^0 K^+$		$(1.8 \pm 0.8) \%$	545

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

$\bar{K}^0 \rho^+$		$(6.6 \pm 2.5) \%$	680
$\bar{K}^0 a_1(1260)^+$		$(8.0 \pm 1.7) \%$	328
$\bar{K}^0 a_2(1320)^+$		$< 3 \times 10^{-3}$	CL=90% 199
$\bar{K}^*(892)^0 \pi^+$		$(1.90 \pm 0.19) \%$	712
$\bar{K}^*(892)^0 \rho^+ \text{ total}$	[rr]	$(2.1 \pm 1.3) \%$	423
$\bar{K}^*(892)^0 \rho^+ \text{ S-wave}$	[rr]	$(1.6 \pm 1.6) \%$	423
$\bar{K}^*(892)^0 \rho^+ \text{ P-wave}$		$< 1 \times 10^{-3}$	CL=90% 423
$\bar{K}^*(892)^0 \rho^+ \text{ D-wave}$		$(10 \pm 7) \times 10^{-3}$	423
$\bar{K}^*(892)^0 \rho^+ \text{ D-wave longitu-}$		$< 7 \times 10^{-3}$	CL=90% 423
dinal			
$\bar{K}_1(1270)^0 \pi^+$		$< 7 \times 10^{-3}$	CL=90% 487
$\bar{K}_1(1400)^0 \pi^+$		$(4.9 \pm 1.2) \%$	390
$\bar{K}^*(1410)^0 \pi^+$		$< 7 \times 10^{-3}$	CL=90% 382
$\bar{K}_0^*(1430)^0 \pi^+$		$(3.7 \pm 0.4) \%$	368
$\bar{K}^*(1680)^0 \pi^+$		$(1.43 \pm 0.30) \%$	65
$\bar{K}^*(892)^0 \pi^+ \pi^0 \text{ total}$		$(6.7 \pm 1.4) \%$	687
$\bar{K}^*(892)^0 \pi^+ \pi^0 \text{ 3-body}$	[rr]	$(4.2 \pm 1.4) \%$	687
$K^*(892)^- \pi^+ \pi^+ \text{ 3-body}$		$(2.0 \pm 0.9) \%$	688
$K^- \rho^+ \pi^+ \text{ total}$		$(3.1 \pm 1.1) \%$	616
$K^- \rho^+ \pi^+ \text{ 3-body}$		$(1.1 \pm 0.4) \%$	616
$\bar{K}^0 \rho^0 \pi^+ \text{ total}$		$(4.2 \pm 0.9) \%$	CL=90% 614
$\bar{K}^0 \rho^0 \pi^+ \text{ 3-body}$		$(5 \pm 5) \times 10^{-3}$	614

$\bar{K}^0 f_0(980) \pi^+$	$< 5 \times 10^{-3}$	CL=90%	461
$\bar{K}^*(892)^0 \pi^+ \pi^+ \pi^-$	$(8.1 \pm 3.4) \times 10^{-3}$	S=1.7	642
$\bar{K}^*(892)^0 \rho^0 \pi^+$	$(2.9 \begin{smallmatrix} +1.7 \\ -1.5 \end{smallmatrix}) \times 10^{-3}$	S=1.8	242
$\bar{K}^*(892)^0 \pi^+ \pi^+ \pi^- \text{ no-}\rho$	$(4.3 \pm 1.7) \times 10^{-3}$		642
$K^- \rho^0 \pi^+ \pi^+$	$(3.1 \pm 0.9) \times 10^{-3}$		529

Pionic modes

$\pi^+ \pi^0$	$(2.5 \pm 0.7) \times 10^{-3}$		925
$\pi^+ \pi^+ \pi^-$	$(3.6 \pm 0.4) \times 10^{-3}$		908
$\rho^0 \pi^+$	$(1.05 \pm 0.31) \times 10^{-3}$		769
$\pi^+ \pi^+ \pi^- \text{ nonresonant}$	$(2.2 \pm 0.4) \times 10^{-3}$		908
$\pi^+ \pi^+ \pi^- \pi^0$	$(1.9 \begin{smallmatrix} +1.5 \\ -1.2 \end{smallmatrix}) \%$		882
$\eta \pi^+ \times B(\eta \rightarrow \pi^+ \pi^- \pi^0)$	$(1.7 \pm 0.6) \times 10^{-3}$		848
$\omega \pi^+ \times B(\omega \rightarrow \pi^+ \pi^- \pi^0)$	$< 6 \times 10^{-3}$	CL=90%	764
$\pi^+ \pi^+ \pi^+ \pi^- \pi^-$	$(2.1 \pm 0.4) \times 10^{-3}$		845
$\pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^0$	$(2.9 \begin{smallmatrix} +2.9 \\ -2.0 \end{smallmatrix}) \times 10^{-3}$		799

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

$\eta \pi^+$	$(7.5 \pm 2.5) \times 10^{-3}$		848
$\rho^0 \pi^+$	$(1.05 \pm 0.31) \times 10^{-3}$		769
$\omega \pi^+$	$< 7 \times 10^{-3}$	CL=90%	764
$\eta \rho^+$	$< 1.2 \%$	CL=90%	658
$\eta'(958) \pi^+$	$< 9 \times 10^{-3}$	CL=90%	680
$\eta'(958) \rho^+$	$< 1.5 \%$	CL=90%	355

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

$K^+\bar{K}^0$		$(7.4 \pm 1.0) \times 10^{-3}$		792
$K^+K^-\pi^+$	[<i>qq</i>]	$(8.8 \pm 0.8) \times 10^{-3}$		744
$\phi\pi^+ \times B(\phi \rightarrow K^+K^-)$		$(3.0 \pm 0.3) \times 10^{-3}$		647
$K^+\bar{K}^*(892)^0$		$(2.8 \pm 0.4) \times 10^{-3}$		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		$(1.5^{+0.7}_{-0.6}) \%$		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>	< 6.6	$\times 10^{-5}$	CL=90% 929
$\pi^+ \mu^+ \mu^-$	<i>C1</i>	< 1.8	$\times 10^{-5}$	CL=90% 917
$\rho^+ \mu^+ \mu^-$	<i>C1</i>	< 5.6	$\times 10^{-4}$	CL=90% 759
$K^+ e^+ e^-$		[<i>ss</i>] < 2.0	$\times 10^{-4}$	CL=90% 869
$K^+ \mu^+ \mu^-$		[<i>ss</i>] < 9.7	$\times 10^{-5}$	CL=90% 856
$\pi^+ e^+ \mu^-$	<i>LF</i>	< 1.1	$\times 10^{-4}$	CL=90% 926
$\pi^+ e^- \mu^+$	<i>LF</i>	< 1.3	$\times 10^{-4}$	CL=90% 926
$K^+ e^+ \mu^-$	<i>LF</i>	< 1.3	$\times 10^{-4}$	CL=90% 866
$K^+ e^- \mu^+$	<i>LF</i>	< 1.2	$\times 10^{-4}$	CL=90% 866
$\pi^- e^+ e^+$	<i>L</i>	< 1.1	$\times 10^{-4}$	CL=90% 929
$\pi^- \mu^+ \mu^+$	<i>L</i>	< 8.7	$\times 10^{-5}$	CL=90% 917
$\pi^- e^+ \mu^+$	<i>L</i>	< 1.1	$\times 10^{-4}$	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

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

$$\text{Mass } m = 1864.6 \pm 0.5 \text{ MeV} \quad (S = 1.1)$$

$$m_{D^\pm} - m_{D^0} = 4.76 \pm 0.10 \text{ MeV} \quad (S = 1.1)$$

$$\text{Mean life } \tau = (0.415 \pm 0.004) \times 10^{-12} \text{ s}$$

$$c\tau = 124.4 \text{ } \mu\text{m}$$

$$|m_{D_1^0} - m_{D_2^0}| < 24 \times 10^{10} \hbar \text{ s}^{-1}, \text{ CL} = 90\% \text{ [tt]}$$

$$|\Gamma_{D_1^0} - \Gamma_{D_2^0}|/\Gamma_{D^0} < 0.20, \text{ CL} = 90\% \text{ [tt]}$$

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

$$\frac{\Gamma(K^+ \pi^- \text{ or } K^+ \pi^- \pi^+ \pi^- \text{ (via } \bar{D}^0))}{\Gamma(K^- \pi^+ \text{ or } K^- \pi^+ \pi^+ \pi^-)} < 0.0085 \text{ (or } < 0.0037), \text{ CL} = 90\% \text{ [uu]}$$

CP-violation decay-rate asymmetries

$$A_{CP}(K^+ K^-) = 0.026 \pm 0.035$$

$$A_{CP}(\pi^+ \pi^-) = -0.05 \pm 0.08$$

$$A_{CP}(K_S^0 \phi) = -0.03 \pm 0.09$$

$$A_{CP}(K_S^0 \pi^0) = -0.018 \pm 0.030$$

\bar{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	—
\bar{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] (3.50 ± 0.17) %	S=1.3	867
$K^- e^+ \nu_e$	(3.66 ± 0.18) %		867
$K^- \mu^+ \nu_\mu$	(3.23 ± 0.17) %		863
$K^- \pi^0 e^+ \nu_e$	(1.6 $^{+1.3}_{-0.5}$) %		861
$\bar{K}^0 \pi^- e^+ \nu_e$	(2.8 $^{+1.7}_{-0.9}$) %		860
$\bar{K}^*(892)^- e^+ \nu_e$	(1.35 ± 0.22) %		719
$\times B(K^{*-} \rightarrow \bar{K}^0 \pi^-)$			
$K^*(892)^- \ell^+ \nu_\ell$	—		—

$\bar{K}^*(892)^0 \pi^- e^+ \nu_e$	—		708
$K^- \pi^+ \pi^- \mu^+ \nu_\mu$	< 1.2	$\times 10^{-3}$	CL=90% 821
$(\bar{K}^*(892)\pi)^- \mu^+ \nu_\mu$	< 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 $\bar{K}K\bar{K}$

$K^- \pi^+$	(3.85 \pm 0.09) %		861
$\bar{K}^0 \pi^0$	(2.12 \pm 0.21) %	S=1.1	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
$\bar{K}^0 f_0(980)$	(3.0 \pm 0.8) $\times 10^{-3}$		549
$\times B(f_0 \rightarrow \pi^+ \pi^-)$			
$\bar{K}^0 f_2(1270)$	(2.4 \pm 0.9) $\times 10^{-3}$		263
$\times B(f_2 \rightarrow \pi^+ \pi^-)$			
$\bar{K}^0 f_0(1370)$	(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	(7.9 \pm 2.1) $\times 10^{-3}$		843

$K^- \pi^+ \pi^+ \pi^-$	[qq] (7.6 ± 0.4) %	S=1.1	812
$K^- \pi^+ \rho^0$ total	(6.3 ± 0.4) %		612
$K^- \pi^+ \rho^0$ 3-body	(4.8 ± 2.1) × 10 ⁻³		612
$\bar{K}^*(892)^0 \rho^0$	(9.8 ± 2.2) × 10 ⁻³		418
× B($\bar{K}^{*0} \rightarrow K^- \pi^+$)			
$K^- a_1(1260)^+$	(3.6 ± 0.6) %		327
× B($a_1(1260)^+ \rightarrow \pi^+ \pi^+ \pi^-$)			
$\bar{K}^*(892)^0 \pi^+ \pi^-$ total	(1.5 ± 0.4) %		683
× B($\bar{K}^{*0} \rightarrow K^- \pi^+$)			
$\bar{K}^*(892)^0 \pi^+ \pi^-$ 3-body	(9.5 ± 2.1) × 10 ⁻³		683
× B($\bar{K}^{*0} \rightarrow K^- \pi^+$)			
$K_1(1270)^- \pi^+$	[rr] (3.6 ± 1.0) × 10 ⁻³		483
× B($K_1(1270)^- \rightarrow K^- \pi^+ \pi^-$)			
$K^- \pi^+ \pi^+ \pi^-$ nonresonant	(1.76 ± 0.25) %		812
$\bar{K}^0 \pi^+ \pi^- \pi^0$	[qq] (10.0 ± 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-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
$K^- \pi^+ \pi^+ \pi^- \pi^0$	(4.1 ± 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} _{-3.0}) %		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

$K_S^0 K_S^0 K_S^0$	$(8.4 \pm 1.5) \times 10^{-4}$	538
$K^+ K^- K^- \pi^+$	$(2.1 \pm 0.5) \times 10^{-4}$	434
$K^+ K^- \bar{K}^0 \pi^0$	$(7.2 \begin{smallmatrix} +4.8 \\ -3.5 \end{smallmatrix}) \times 10^{-3}$	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 $\bar{K}^*(892)\rho$ submodes only appear below.)

$\bar{K}^0 \eta$	$(7.1 \pm 1.0) \times 10^{-3}$	772
$\bar{K}^0 \rho^0$	$(1.21 \pm 0.17) \%$	676
$K^- \rho^+$	$(10.8 \pm 1.0) \%$	S=1.2 678
$\bar{K}^0 \omega$	$(2.1 \pm 0.4) \%$	670
$\bar{K}^0 \eta'(958)$	$(1.72 \pm 0.26) \%$	565
$\bar{K}^0 f_0(980)$	$(5.7 \pm 1.6) \times 10^{-3}$	549
$\bar{K}^0 \phi$	$(8.6 \pm 1.0) \times 10^{-3}$	520
$K^- a_1(1260)^+$	$(7.3 \pm 1.1) \%$	327
$\bar{K}^0 a_1(1260)^0$	$< 1.9 \%$	CL=90% 322
$\bar{K}^0 f_2(1270)$	$(4.2 \pm 1.5) \times 10^{-3}$	263
$K^- a_2(1320)^+$	$< 2 \times 10^{-3}$	CL=90% 197
$\bar{K}^0 f_0(1370)$	$(7.0 \pm 2.1) \times 10^{-3}$	—
$K^*(892)^- \pi^+$	$(5.1 \pm 0.4) \%$	S=1.2 711
$\bar{K}^*(892)^0 \pi^0$	$(3.2 \pm 0.4) \%$	709
$\bar{K}^*(892)^0 \pi^+ \pi^-$ total	$(2.3 \pm 0.5) \%$	683
$\bar{K}^*(892)^0 \pi^+ \pi^-$ 3-body	$(1.43 \pm 0.32) \%$	683
$K^- \pi^+ \rho^0$ total	$(6.3 \pm 0.4) \%$	612
$K^- \pi^+ \rho^0$ 3-body	$(4.8 \pm 2.1) \times 10^{-3}$	612
$\bar{K}^*(892)^0 \rho^0$	$(1.47 \pm 0.33) \%$	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 ± 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 ± 0.9)	%		641
$\bar{K}^*(892)^0 \eta$	(1.9 ± 0.5)	%		580
$K^- \pi^+ \omega$	(3.0 ± 0.6)	%		605
$\bar{K}^*(892)^0 \omega$	(1.1 ± 0.5)	%		406
$K^- \pi^+ \eta'(958)$	(7.0 ± 1.8)	$\times 10^{-3}$		479
$\bar{K}^*(892)^0 \eta'(958)$	< 1.1	$\times 10^{-3}$	CL=90%	99

Pionic modes

$\pi^+ \pi^-$	(1.53 ± 0.09)	$\times 10^{-3}$		922
$\pi^0 \pi^0$	(8.5 ± 2.2)	$\times 10^{-4}$		922
$\pi^+ \pi^- \pi^0$	(1.6 ± 1.1)	%	S=2.7	907
$\pi^+ \pi^+ \pi^- \pi^-$	(7.4 ± 0.6)	$\times 10^{-3}$		879
$\pi^+ \pi^+ \pi^- \pi^- \pi^0$	(1.9 ± 0.4)	%		844
$\pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^-$	(4.0 ± 3.0)	$\times 10^{-4}$		795

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

K^+K^-	$(4.27 \pm 0.16) \times 10^{-3}$		791
$K^0\bar{K}^0$	$(6.5 \pm 1.8) \times 10^{-4}$	S=1.2	788
$K^0K^-\pi^+$	$(6.4 \pm 1.0) \times 10^{-3}$	S=1.1	739
$\bar{K}^*(892)^0K^0$ $\times B(\bar{K}^{*0} \rightarrow K^-\pi^+)$	$< 1.1 \times 10^{-3}$	CL=90%	605
$K^*(892)^+K^-$ $\times B(K^{*+} \rightarrow K^0\pi^+)$	$(2.3 \pm 0.5) \times 10^{-3}$		610
$K^0K^-\pi^+$ nonresonant	$(2.3 \pm 2.3) \times 10^{-3}$		739
$\bar{K}^0K^+\pi^-$	$(5.0 \pm 1.0) \times 10^{-3}$		739
$K^*(892)^0\bar{K}^0$ $\times B(K^{*0} \rightarrow K^+\pi^-)$	$< 5 \times 10^{-4}$	CL=90%	605
$K^*(892)^-K^+$ $\times B(K^{*-} \rightarrow \bar{K}^0\pi^-)$	$(1.2 \pm 0.7) \times 10^{-3}$		610
$\bar{K}^0K^+\pi^-$ nonresonant	$(3.9 \pm_{-1.9}^{+2.3}) \times 10^{-3}$		739
$K^+K^-\pi^0$	$(1.3 \pm 0.4) \times 10^{-3}$		742
$K_S^0K_S^0\pi^0$	$< 5.9 \times 10^{-4}$		739
$K^+K^-\pi^+\pi^-$	[vv] $(2.52 \pm 0.24) \times 10^{-3}$		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
$K^+K^-\rho^0$ 3-body	$(9.1 \pm 2.3) \times 10^{-4}$		309
$K^*(892)^0K^-\pi^+ + c.c.$	[ww] $< 5 \times 10^{-4}$		528
$\times B(K^{*0} \rightarrow K^+\pi^-)$			
$K^*(892)^0\bar{K}^*(892)^0$ $\times B^2(K^{*0} \rightarrow K^+\pi^-)$	$(6 \pm 2) \times 10^{-4}$		257
$K^+K^-\pi^+\pi^-$ non- ϕ	—		676
$K^+K^-\pi^+\pi^-$ nonresonant	$< 8 \times 10^{-4}$	CL=90%	676
$K^0\bar{K}^0\pi^+\pi^-$	$(6.9 \pm 2.7) \times 10^{-3}$		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.

$\bar{K}^*(892)^0K^0$	$< 1.6 \times 10^{-3}$	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
$\phi\pi^+\pi^-$	$(1.08 \pm 0.29) \times 10^{-3}$		614
$\phi\rho^0$	$(6 \pm 3) \times 10^{-4}$		260
$\phi\pi^+\pi^-$ 3-body	$(7 \pm 5) \times 10^{-4}$		614
$K^*(892)^0K^-\pi^+ + c.c.$	[ww] $< 8 \times 10^{-4}$	CL=90%	—
$K^*(892)^0\bar{K}^*(892)^0$	$(1.4 \pm 0.5) \times 10^{-3}$		257

**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%	—
$K^+ \pi^-$ or $K^+ \pi^- \pi^+ \pi^-$ (via \bar{D}^0)	C2M	< 1.0	$\times 10^{-3}$	CL=90%	—
$K^+ \pi^-$	DC	(2.8 \pm 0.9)	$\times 10^{-4}$		861
$K^+ \pi^-$ (via \bar{D}^0)		< 1.9	$\times 10^{-4}$	CL=90%	861
$K^+ \pi^- \pi^+ \pi^-$	DC	(1.9 \pm 2.7)	$\times 10^{-4}$		812
$K^+ \pi^- \pi^+ \pi^-$ (via \bar{D}^0)		< 4	$\times 10^{-4}$	CL=90%	812
μ^- anything (via \bar{D}^0)		< 4	$\times 10^{-4}$	CL=90%	—
$e^+ e^-$	C1	< 1.3	$\times 10^{-5}$	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	[gg] < 1.9	$\times 10^{-5}$	CL=90%	929
$\pi^0 e^\pm \mu^\mp$	LF	[gg] < 8.6	$\times 10^{-5}$	CL=90%	924
$\eta e^\pm \mu^\mp$	LF	[gg] < 1.0	$\times 10^{-4}$	CL=90%	848
$\rho^0 e^\pm \mu^\mp$	LF	[gg] < 4.9	$\times 10^{-5}$	CL=90%	769
$\omega e^\pm \mu^\mp$	LF	[gg] < 1.2	$\times 10^{-4}$	CL=90%	764
$\phi e^\pm \mu^\mp$	LF	[gg] < 3.4	$\times 10^{-5}$	CL=90%	648
$\bar{K}^0 e^\pm \mu^\mp$	LF	[gg] < 1.0	$\times 10^{-4}$	CL=90%	862
$\bar{K}^*(892)^0 e^\pm \mu^\mp$	LF	[gg] < 1.0	$\times 10^{-4}$	CL=90%	712

$D^*(2007)^0$

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

I, J, P need confirmation.

$$\text{Mass } m = 2006.7 \pm 0.5 \text{ MeV} \quad (S = 1.1)$$

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

$$\text{Full width } \Gamma < 2.1 \text{ MeV, CL} = 90\%$$

$\bar{D}^*(2007)^0$ 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.

$$\text{Mass } m = 2010.0 \pm 0.5 \text{ MeV} \quad (S = 1.1)$$

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

$$m_{D^{*(2010)^+}} - m_{D^0} = 145.397 \pm 0.030 \text{ MeV}$$

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

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

$D^*(2010)^\pm$ DECAY MODES	Fraction (Γ_i/Γ)	p (MeV/c)
$D^0 \pi^+$	(68.3±1.4) %	39
$D^+ \pi^0$	(30.6±2.5) %	38
$D^+ \gamma$	(1.1 ^{+2.1} _{-0.7}) %	136

 $D_1(2420)^0$

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

I, J, P need confirmation.

$$\text{Mass } m = 2422.2 \pm 1.8 \text{ MeV} \quad (S = 1.2)$$

$$\text{Full width } \Gamma = 18.9^{+4.6}_{-3.5} \text{ MeV}$$

$\bar{D}_1(2420)^0$ 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

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

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

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

 $J^P = 2^+$ 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

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

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