See key on page 1343

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.)

	Mode		Fraction	Scale factor/Confidence level
Γ_{69}	$\overline{K}^0\eta$		$(6.8 \pm 1.1) \times 10^{-3}$	
Γ_{70}	$\overline{K}^0\rho^0$		(1.10 ± 0.18) %	
Γ_{71}	$K^-\rho^+$		(10.4 ± 1.3) %	S=1.2
Γ_{72}	$\overline{K}^0\omega$		(2.0 ± 0.4) %	
Γ_{73}	$\overline{K}^0\eta'(958)$		(1.66 ± 0.29) %	
Γ_{74}	$\overline{K}^0 f_0(980)$		$(4.6 \pm 2.0) \times 10^{-3}$	
Γ_{75}	$\overline{K}^0\phi$		$(8.3 \pm 1.2) \times 10^{-3}$	S=1.1
Γ_{76}	$K^- a_1(1260)^+$		(7.9 ± 1.2) %	
Γ_{77}	$\overline{K}^0 a_1(1260)^0$		< 1.9 %	CL=90%
Γ_{78}	$\overline{K}^0 f_2(1270)$		$(4.6 \pm 2.1) \times 10^{-3}$	
Γ_{79}	$\overline{K}^0 f_0(1300)$		$(6.9 \pm 2.7) \times 10^{-3}$	
Γ_{80}	$K^- a_2(1320)^+$		$< 2 \times 10^{-3}$	CL=90%
Γ_{81}	$K^*(892)^-\pi^+$		(4.9 ± 0.6) %	S=1.3
Γ_{82}	$\overline{K}^*(892)^0\pi^0$		(3.0 ± 0.4) %	
Γ_{83}	$\overline{K}^*(892)^0\pi^+\pi^-$ total		(2.4 ± 0.6) %	
Γ_{84}	$\overline{K}^*(892)^0\pi^+\pi^-$ 3-body		(1.52 ± 0.33) %	
Γ_{85}	$K^-\pi^+\rho^0$ total		(6.8 ± 0.5) %	
Γ_{86}	$K^-\pi^+\rho^0$ 3-body		$(5.1 \pm 2.3) \times 10^{-3}$	
Γ_{87}	$\overline{K}^*(892)^0\rho^0$		(1.6 ± 0.4) %	
Γ_{88}	$\overline{K}^*(892)^0\rho^0$ transverse		(1.6 ± 0.5) %	
Γ_{89}	$\overline{K}^*(892)^0\rho^0$ S-wave		(3.0 ± 0.6) %	
Γ_{90}	$\overline{K}^*(892)^0\rho^0$ S-wave long.		$< 3 \times 10^{-3}$	CL=90%
Γ_{91}	$\overline{K}^*(892)^0\rho^0$ P-wave		$< 3 \times 10^{-3}$	CL=90%
Γ_{92}	$\overline{K}^*(892)^0\rho^0$ D-wave		(2.1 ± 0.6) %	
Γ_{93}	$K^*(892)^-\rho^+$		(5.9 ± 2.4) %	
Γ_{94}	$K^*(892)^-\rho^+$ longitudinal		(2.8 ± 1.2) %	
Γ_{95}	$K^*(892)^-\rho^+$ transverse		(3.1 ± 1.8) %	
Γ_{96}	$K^*(892)^-\rho^+$ P-wave		< 1.5 %	CL=90%
Γ_{97}	$K^-\pi^+ f_0(980)$		< 1.1 %	CL=90%
Γ_{98}	$\overline{K}^*(892)^0 f_0(980)$		$< 7 \times 10^{-3}$	CL=90%
Γ_{99}	$K_1(1270)^-\pi^+$	[g]	(1.04 ± 0.31) %	
Γ_{100}	$K_1(1400)^-\pi^+$		< 1.2 %	CL=90%
Γ_{101}	$\overline{K}_1(1400)^0\pi^0$		< 3.7 %	CL=90%
Γ_{102}	$K^*(1410)^-\pi^+$		< 1.2 %	CL=90%
Γ_{103}	$K_0^*(1430)^-\pi^+$		(1.1 ± 0.4) %	
Γ_{104}	$K_2^*(1430)^-\pi^+$		$< 8 \times 10^{-3}$	CL=90%
Γ_{105}	$\overline{K}_2^*(1430)^0\pi^0$		$< 4 \times 10^{-3}$	CL=90%
Γ_{106}	$\overline{K}^*(892)^0\pi^+\pi^-\pi^0$		(1.9 ± 0.9) %	
Γ_{107}	$\overline{K}^*(892)^0\eta$		(1.9 ± 0.5) %	
Γ_{108}	$K^-\pi^+\omega$		(3.1 ± 0.6) %	
Γ_{109}	$\overline{K}^*(892)^0\omega$		(1.1 ± 0.5) %	
Γ_{110}	$K^-\pi^+\eta'(958)$		$(7.5 \pm 2.0) \times 10^{-3}$	
Γ_{111}	$\overline{K}^*(892)^0\eta'(958)$		$< 1.1 \times 10^{-3}$	CL=90%

Pionic modes

	Mode	Fraction	Scale factor
Γ_{112}	$\pi^+\pi^-$	$(1.59 \pm 0.12) \times 10^{-3}$	
Γ_{113}	$\pi^0\pi^0$	$(8.8 \pm 2.3) \times 10^{-4}$	
Γ_{114}	$\pi^+\pi^-\pi^0$	(1.6 ± 1.1) %	S=2.7
Γ_{115}	$\pi^+\pi^+\pi^-\pi^-$	$(8.3 \pm 0.9) \times 10^{-3}$	
Γ_{116}	$\pi^+\pi^+\pi^-\pi^-\pi^0$	(1.9 ± 0.4) %	
Γ_{117}	$\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-$	$(4.0 \pm 3.0) \times 10^{-4}$	

Hadronic modes with two K's

	Mode	Fraction	Scale factor/Confidence level
Γ_{118}	K^+K^-	$(4.54 \pm 0.29) \times 10^{-3}$	
Γ_{119}	$K^0\overline{K}^0$	$(1.1 \pm 0.4) \times 10^{-3}$	
Γ_{120}	$K^0K^-\pi^+$	$(6.3 \pm 1.1) \times 10^{-3}$	S=1.2
Γ_{121}	$\overline{K}^*(892)^0K^0 \times B(\overline{K}^{*0} \to K^-\pi^+)$	$< 1.0 \times 10^{-3}$	CL=90%
Γ_{122}	$K^*(892)^+K^- \times B(K^{*+} \to K^0\pi^+)$	$(2.3 \pm 0.5) \times 10^{-3}$	
Γ_{123}	$K^0K^-\pi^+$ nonresonant	$(2.4 \pm 2.4) \times 10^{-3}$	
Γ_{124}	$\overline{K}^0K^+\pi^-$	$(4.9 \pm 1.0) \times 10^{-3}$	
Γ_{125}	$K^*(892)^0\overline{K}^0 \times B(K^{*0} \to K^+\pi^-)$	$< 5 \times 10^{-4}$	CL=90%
Γ_{126}	$K^*(892)^-K^+ \times B(K^{*-} \to \overline{K}^0\pi^-)$	$(1.2 \pm 0.7) \times 10^{-3}$	
Γ_{127}	$\overline{K}^0K^+\pi^-$ nonresonant	$(4.0 \, ^{+2.4}_{-2.0}) \times 10^{-3}$	
Γ_{128}	$K^+K^-\pi^+\pi^-$	$(2.4 \pm 0.5) \times 10^{-3}$	
Γ_{129}	$\phi\pi^+\pi^- \times B(\phi \to K^+K^-)$	$(1.3 \pm 0.4) \times 10^{-3}$	
Γ_{130}	$\phi\rho^0 \times B(\phi \to K^+K^-)$	$(1.0 \pm 0.25) \times 10^{-3}$	
Γ_{131}	$K^*(892)^0K^-\pi^+ +$ c.c. $\times B(K^{*0} \to K^+\pi^-)$	$(5 \, ^{+9}_{-5}) \times 10^{-4}$	
Γ_{132}	$K^*(892)^0\overline{K}^*(892)^0 \times B^2(K^{*0} \to K^+\pi^-)$	$(1.3 \, ^{+0.7}_{-0.6}) \times 10^{-3}$	
Γ_{133}	$K^+K^-\pi^+\pi^-$ non-ϕ	$(1.7 \pm 0.5) \times 10^{-3}$	
Γ_{134}	$K^+K^-\pi^+\pi^-$ nonresonant	$(8 \, ^{+90}_{-8}) \times 10^{-5}$	
Γ_{135}	$K^+K^-\pi^+\pi^-\pi^0$	$(3.1 \pm 2.0) \times 10^{-3}$	

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

	Mode	Fraction	Confidence level
Γ_{136}	$\overline{K}^*(892)^0K^0$	$< 1.5 \times 10^{-3}$	CL=90%
Γ_{137}	$K^*(892)^+K^-$	$(3.4 \pm 0.8) \times 10^{-3}$	
Γ_{138}	$K^*(892)^0\overline{K}^0$	$< 8 \times 10^{-4}$	CL=90%
Γ_{139}	$K^*(892)^-K^+$	$(1.8 \pm 1.0) \times 10^{-3}$	
Γ_{140}	$\phi\pi^+\pi^-$	$(2.6 \pm 0.7) \times 10^{-3}$	
Γ_{141}	$\phi\rho^0$	$(1.9 \pm 0.5) \times 10^{-3}$	
Γ_{142}	$K^*(892)^0K^-\pi^+ +$ c.c.	$(8 \, ^{+13}_{-8}) \times 10^{-4}$	
Γ_{143}	$K^*(892)^0\overline{K}^*(892)^0$	$(2.9 \, ^{+1.6}_{-1.3}) \times 10^{-3}$	

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

	Mode	Type		Fraction	Scale factor/Confidence level
Γ_{144}	$K^+\pi^-$	DC		$(3.1 \pm 1.4) \times 10^{-4}$	
Γ_{145}	$K^+\pi^-$ (via $\overline{D}^0$)	$C2M$		$< 1.5 \times 10^{-4}$	CL=90%
Γ_{146}	$K^+\pi^+\pi^-\pi^-$	DC		$< 1.5 \times 10^{-3}$	CL=90%
Γ_{147}	μ^- anything (via $\overline{D}^0$)	$C2M$		$< 6 \times 10^{-4}$	CL=90%
Γ_{148}	e^+e^-	$C1$		$< 1.3 \times 10^{-4}$	CL=90%
Γ_{149}	$\mu^+\mu^-$	$C1$		$< 1.1 \times 10^{-5}$	CL=90%
Γ_{150}	$\overline{K}^0e^+e^-$			$< 1.7 \times 10^{-3}$	CL=90%
Γ_{151}	$\rho^0e^+e^-$	$C1$		$< 4.5 \times 10^{-4}$	CL=90%
Γ_{152}	$\rho^0\mu^+\mu^-$	$C1$		$< 8.1 \times 10^{-4}$	CL=90%
Γ_{153}	$\mu^\pm e^\mp$	LF	[h]	$< 1.0 \times 10^{-4}$	CL=90%

	Mode	Fraction	Scale factor
Γ_{154}	A dummy mode used by the fit.	(24 ± 4) %	S=1.1

[a] This is a weighted average of $D^\pm$ (44%) and D^0 (56%) branching fractions. See "D^+ and $D^0 \to$ (ηanything) / (total D^+ and D^0)" under "D^+ Branching Ratios" in these Full Listings.

[b] This value combines the e^+ and μ^+ branching fractions, making a small phase-space adjustment to the μ^+ fraction to be able to use it as an e^+ fraction; hence the "e^+." In fact, some of the e^+ measurements already use μ^+ events in this way.

[c] See the "Note on Semileptonic Decays of D and B Mesons" in the D^+ Full Listings for a comparison of inclusive and summed-inclusive branching fractions.

[d] ℓ indicates e or μ mode, not sum over modes.

[e] The limit on $(\overline{K}^*(892)\pi)^-\ \mu^+\nu_\mu$ just below is much stronger.

[f] The branching fractions for this mode may differ from the sum of the submodes that contribute to it, due to interference effects. See the relevant papers.

[g] The two experiments determining this ratio are in serious disagreement. See the Full Listings.

[h] The value is for the sum of the charge states indicated.