D^+ DECAY MODES

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

	Mode		Fraction (Γ_i/Γ)	Scale factor/ Confidence level
	Inclusive modes			
Γ_1	e^+ anything		(17.2 ± 1.9) %	
Γ_2	K^- anything		(24.2 ± 2.8) %	S=1.4
Γ_3	$\overline{K}^0$ anything + K^0 anything		(59 ± 7) %	
Γ_4	K^+ anything		(5.8 ± 1.4) %	
Γ_5	η anything	[a]	< 13 %	CL=90%
Γ_6	μ^+ anything			
Γ_7	$\mu^+\mu^-$ anything			
	Leptonic and semileptonic modes			
Γ_8	$\mu^+\nu_\mu$		$< 7.2 \times 10^{-4}$	CL=90%
Γ_9	$\overline{K}^0$ "e^+" ν_e	[b]	(6.7 ± 0.8) %	
Γ_{10}	$\overline{K}^0 e^+\nu_e$		(6.6 ± 0.9) %	
Γ_{11}	$\overline{K}^0 \mu^+\nu_\mu$		$(7.0 {}^{+3.0}_{-2.0})$ %	
Γ_{12}	$\overline{K}^0 \ell^+\nu_\ell$		(6.7 ± 3.5) %	
Γ_{13}	$K^-\pi^+ e^+\nu_e$		$(4.2 {}^{+0.9}_{-0.7})$ %	
Γ_{14}	$\overline{K}^*(892)^0 e^+\nu_e$ $\times$ B$(\overline{K}^{*0} \to K^-\pi^+)$		(3.2 ± 0.33) %	
Γ_{15}	$K^-\pi^+ e^+\nu_e$ nonresonant		$< 7 \times 10^{-3}$	CL=90%
Γ_{16}	$K^-\pi^+\mu^+\nu_\mu$		(3.2 ± 1.7) %	
	In the fit as $\frac{2}{3}\Gamma_{28} + \Gamma_{18}$, where $\frac{2}{3}\Gamma_{28} = \Gamma_{17}$.			
Γ_{17}	$\overline{K}^*(892)^0 \mu^+\nu_\mu$ $\times$ B$(\overline{K}^{*0} \to K^-\pi^+)$		(3.0 ± 0.4) %	
Γ_{18}	$K^-\pi^+\mu^+\nu_\mu$ nonresonant		$(2.7 \pm 1.1) \times 10^{-3}$	
Γ_{19}	$\overline{K}^0\pi^+\pi^- e^+\nu_e$			
Γ_{20}	$K^-\pi^+\pi^0 e^+\nu_e$			
Γ_{21}	$(\overline{K}^*(892)\pi)^0 e^+\nu_e$		< 1.2 %	CL=90%
Γ_{22}	$(\overline{K}\pi\pi)^0 e^+\nu_e$ non-$\overline{K}^*(892)$		$< 9 \times 10^{-3}$	CL=90%
Γ_{23}	$K^-\pi^+\pi^0\mu^+\nu_\mu$		$< 1.4 \times 10^{-3}$	CL=90%
Γ_{24}	$\pi^0\ell^+\nu_\ell$	[c]	$(5.7 \pm 2.2) \times 10^{-3}$	
Γ_{25}	$\pi^+\pi^- e^+\nu_e$			
	Fractions of some of the following modes with resonances have already appeared above as submodes of particular charged-particle modes.			
Γ_{26}	$\overline{K}^*(892)^0$ "e^+" ν_e	[b]	(4.8 ± 0.4) %	
Γ_{27}	$\overline{K}^*(892)^0 e^+\nu_e$		(4.8 ± 0.5) %	
Γ_{28}	$\overline{K}^*(892)^0 \mu^+\nu_\mu$		(4.5 ± 0.6) %	S=1.1
Γ_{29}	$\rho^0 e^+\nu_e$		$< 3.7 \times 10^{-3}$	CL=90%
Γ_{30}	$\rho^0 \mu^+\nu_\mu$		$(2.0 {}^{+1.5}_{-1.3}) \times 10^{-3}$	
Γ_{31}	$\phi e^+\nu_e$		< 2.09 %	CL=90%
Γ_{32}	$\phi \mu^+\nu_\mu$		< 3.72 %	CL=90%
Γ_{33}	$\eta'(958)\mu^+\nu_\mu$		$< 9 \times 10^{-3}$	CL=90%
	Hadronic modes with one or three K's			
Γ_{34}	$\overline{K}^0\pi^+$		(2.74 ± 0.29) %	
Γ_{35}	$K^-\pi^+\pi^+$	[d]	(9.1 ± 0.6) %	
Γ_{36}	$\overline{K}^*(892)^0\pi^+$ $\times$ B$(\overline{K}^{*0} \to K^-\pi^+)$		(1.5 ± 0.3) %	
Γ_{37}	$\overline{K}_0(1430)^0\pi^+$ $\times$ B$(\overline{K}^*(1430)^0 \to K^-\pi^+)$		(2.3 ± 0.3) %	
Γ_{38}	$\overline{K}^*(1680)^0\pi^+$ $\times$ B$(\overline{K}^*(1680)^0 \to K^-\pi^+)$		$(2.6 \pm 1.3) \times 10^{-3}$	
Γ_{39}	$K^-\pi^+\pi^+$ nonresonant		(7.3 ± 1.4) %	
Γ_{40}	$\overline{K}^0\pi^+\pi^0$	[d]	(9.7 ± 3.0) %	S=1.1
Γ_{41}	$\overline{K}^0\rho^+$		(6.6 ± 2.5) %	
Γ_{42}	$\overline{K}^*(892)^0\pi^+$ $\times$ B$(\overline{K}^{*0} \to \overline{K}^0\pi^0)$		(0.7 ± 0.2) %	
Γ_{43}	$\overline{K}^0\pi^+\pi^0$ nonresonant		(1.3 ± 1.1) %	
Γ_{44}	$K^-\pi^+\pi^+\pi^0$	[d]	(6.4 ± 1.1) %	
Γ_{45}	$\overline{K}^*(892)^0\rho^+$ total $\times$ B$(\overline{K}^{*0} \to K^-\pi^+)$		(1.4 ± 0.9) %	
Γ_{46}	$\overline{K}_1(1400)^0\pi^+$ $\times$ B$(\overline{K}_1(1400)^0 \to K^-\pi^+\pi^0)$		(2.2 ± 0.6) %	
Γ_{47}	$K^-\rho^+\pi^+$ total		(3.1 ± 1.1) %	
Γ_{48}	$\overline{K}^*(892)^0\pi^+\pi^0$ total $\times$ B$(\overline{K}^{*0} \to K^-\pi^+)$		(4.5 ± 0.9) %	
Γ_{49}	$\overline{K}^*(892)^0\pi^+\pi^0$ 3-body $\times$ B$(\overline{K}^{*0} \to K^-\pi^+)$		(2.8 ± 0.9) %	
Γ_{50}	$K^*(892)^-\pi^+\pi^+$ 3-body $\times$ B$(K^{*-} \to K^-\pi^0)$		(1.4 ± 0.6) %	
Γ_{51}	$K^-\pi^+\pi^+\pi^0$ nonresonant	[e]	(1.2 ± 0.6) %	
Γ_{52}	$\overline{K}^0\pi^+\pi^+\pi^-$	[d]	(7.0 ± 1.0) %	
Γ_{53}	$\overline{K}^0 a_1(1260)^+$ $\times$ B$(a_1(1260)^+ \to \pi^+\pi^+\pi^-)$		(4.0 ± 0.8) %	
Γ_{54}	$\overline{K}_1(1400)^0\pi^+$ $\times$ B$(\overline{K}_1(1400)^0 \to \overline{K}^0\pi^+\pi^-)$		(2.2 ± 0.6) %	
Γ_{55}	$K^*(892)^-\pi^+\pi^+$ 3-body $\times$ B$(K^{*-} \to \overline{K}^0\pi^-)$		(1.4 ± 0.6) %	
Γ_{56}	$\overline{K}^0\rho^0\pi^+$ total		(4.2 ± 0.9) %	
Γ_{57}	$\overline{K}^0\pi^+\pi^+\pi^-$ nonresonant		$(8 \pm 4) \times 10^{-3}$	
Γ_{58}	$K^-\pi^+\pi^+\pi^+\pi^-$		$(8.2 \pm 1.4) \times 10^{-3}$	
Γ_{59}	$\overline{K}^*(892)^0\pi^+\pi^+\pi^-$ $\times$ B$(\overline{K}^{*0} \to K^-\pi^+)$		$(6.8 \pm 1.8) \times 10^{-3}$	
Γ_{60}	$\overline{K}^*(892)^0\rho^0\pi^+$ $\times$ B$(\overline{K}^{*0} \to K^-\pi^+)$		$(5.1 \pm 2.2) \times 10^{-3}$	
Γ_{61}	$K^-\pi^+\pi^+\pi^0\pi^0$		$(2.2 {}^{+5.0}_{-0.9})$ %	
Γ_{62}	$\overline{K}^0\pi^+\pi^+\pi^-\pi^0$		$(5.4 {}^{+3.0}_{-1.4})$ %	
Γ_{63}	$\overline{K}^0\pi^+\pi^+\pi^+\pi^-\pi^-$		$(8 \pm 7) \times 10^{-4}$	
Γ_{64}	$K^-\pi^+\pi^+\pi^+\pi^-\pi^0$		$(2.0 \pm 1.8) \times 10^{-3}$	
Γ_{65}	$\overline{K}^0\overline{K}^0 K^+$		(3.1 ± 0.7) %	
	Fractions of some of the following modes with resonances have already appeared above as submodes of particular charged-particle modes.			
Γ_{66}	$\overline{K}^0\rho^+$		(6.6 ± 2.5) %	
Γ_{67}	$\overline{K}^0 a_1(1260)^+$		(8.1 ± 1.7) %	
Γ_{68}	$\overline{K}^0 a_2(1320)^+$		$< 3 \times 10^{-3}$	CL=90%
Γ_{69}	$\overline{K}^*(892)^0\pi^+$		(2.2 ± 0.4) %	
Γ_{70}	$\overline{K}^*(892)^0\rho^+$ total		(2.1 ± 1.4) %	
Γ_{71}	$\overline{K}^*(892)^0\rho^+$ S-wave	[e]	(1.7 ± 1.6) %	
Γ_{72}	$\overline{K}^*(892)^0\rho^+$ P-wave		$< 1 \times 10^{-3}$	CL=90%
Γ_{73}	$\overline{K}^*(892)^0\rho^+$ D-wave		$(10 \pm 7) \times 10^{-3}$	
Γ_{74}	$\overline{K}^*(892)^0\rho^+$ D-wave longitudinal		$< 7 \times 10^{-3}$	CL=90%
Γ_{75}	$\overline{K}_1(1270)^0\pi^+$		$< 7 \times 10^{-3}$	CL=90%
Γ_{76}	$\overline{K}_1(1400)^0\pi^+$		(5.0 ± 1.3) %	
Γ_{77}	$\overline{K}^*(1410)^0\pi^+$		$< 7 \times 10^{-3}$	CL=90%
Γ_{78}	$\overline{K}^*_0(1430)^0\pi^+$		(3.4 ± 0.4) %	
Γ_{79}	$\overline{K}^*(1680)^0\pi^+$		(1.0 ± 0.5) %	
Γ_{80}	$\overline{K}^*(892)^0\pi^+\pi^0$ total		(6.7 ± 1.4) %	
Γ_{81}	$\overline{K}^*(892)^0\pi^+\pi^0$ 3-body		(4.2 ± 1.4) %	
Γ_{82}	$K^*(892)^-\pi^+\pi^+$ 3-body		(2.1 ± 0.9) %	
Γ_{83}	$K^-\rho^+\pi^+$ total		(3.1 ± 1.1) %	
Γ_{84}	$K^-\rho^+\pi^+$ 3-body		(1.1 ± 0.4) %	
Γ_{85}	$\overline{K}^0\rho^0\pi^+$ total		(4.2 ± 0.9) %	CL=90%
Γ_{86}	$\overline{K}^0\rho^0\pi^+$ 3-body		$(5 \pm 5) \times 10^{-3}$	
Γ_{87}	$\overline{K}^0 f_0(980)\pi^+$		$< 5 \times 10^{-3}$	CL=90%
Γ_{88}	$\overline{K}^*(892)^0\pi^+\pi^+\pi^-$		(1.02 ± 0.27) %	
Γ_{89}	$\overline{K}^*(892)^0\rho^0\pi^+$		$(7.7 \pm 3.3) \times 10^{-3}$	
	Pionic modes			
Γ_{90}	$\pi^+\pi^0$		$(2.5 \pm 0.7) \times 10^{-3}$	
Γ_{91}	$\pi^+\pi^+\pi^-$		$(3.2 \pm 0.6) \times 10^{-3}$	
Γ_{92}	$\rho^0\pi^+$		$< 1.4 \times 10^{-3}$	CL=90%
Γ_{93}	$\pi^+\pi^+\pi^-$ nonresonant		$(2.5 \pm 0.7) \times 10^{-3}$	
Γ_{94}	$\pi^+\pi^+\pi^-\pi^0$		$(1.9 {}^{+1.5}_{-1.2})$ %	
Γ_{95}	$\eta\pi^+ \times$ B$(\eta \to \pi^+\pi^-\pi^0)$		$(1.8 \pm 0.6) \times 10^{-3}$	
Γ_{96}	$\omega\pi^+ \times$ B$(\omega \to \pi^+\pi^-\pi^0)$		$< 6 \times 10^{-3}$	CL=90%
Γ_{97}	$\pi^+\pi^+\pi^+\pi^-\pi^-$		$(1.0 {}^{+0.8}_{-0.7}) \times 10^{-3}$	
Γ_{98}	$\pi^+\pi^+\pi^+\pi^-\pi^-\pi^0$		$(2.9 {}^{+2.9}_{-2.0}) \times 10^{-3}$	
	Fractions of some of the following modes with resonances have already appeared above as submodes of particular charged-particle modes.			
Γ_{99}	$\rho^0\pi^+$		$< 1.4 \times 10^{-3}$	CL=90%
Γ_{100}	$\eta\pi^+$		$(7.5 \pm 2.5) \times 10^{-3}$	
Γ_{101}	$\omega\pi^+$		$< 7 \times 10^{-3}$	CL=90%
Γ_{102}	$\eta\rho^+$		< 1.2 %	CL=90%
Γ_{103}	$\eta'(958)\pi^+$		$< 9 \times 10^{-3}$	CL=90%
Γ_{104}	$\eta'(958)\rho^+$		< 1.5 %	CL=90%