

Φ decays - Branching Ratios

K^+K^-	0.492
K_LK_S	0.337
$\rho\pi + \pi^+\pi^-\pi^0$	0.155
$\eta\gamma$	0.01299
$\pi\gamma$	0.00124
$f_0\gamma$	0.00033
$\pi^0\pi^0\gamma$	0.000108
$\pi^+\pi^-\gamma$	0.000041
$a_0\gamma$	0.00088
$\eta'\gamma$	0.000067

K_s decays - Branching Ratios

$\pi^+\pi^-$	0.686
$\pi^0\pi^0$	0.314
K_{e3}	0.00072
$K_{\mu3}$	0.00050*
$\pi^+\pi^-\gamma$	0.00178
$\pi^0\pi^0\pi^0$	0.000015 ^L
$\gamma\gamma$	0.0000025
$\pi^+\pi^-\pi^0$	0.00000032
K_{e4}	0.000001*
$K_{\mu4}$	0.000001*

K_L decays - Branching Ratios

K_{e3}	0.3879
$K_{\mu3}$	0.2718
$\pi^0\pi^0\pi^0$	0.2108
$\pi^+\pi^-\pi^0$	0.1258
$\pi^+\pi^-$	0.002084
$\pi^0\pi^0$	0.000942
$\pi^+\pi^-\gamma$	0.0000438
$\gamma\gamma$	0.000596
$\pi^0\nu\nu$	0.00000059 ^L
K_{e4}	0.0000518
$K_{\mu4}$	0.0000300*

Particle mass and widths

	Mass (MeV)	Γ (MeV)
Φ	1019.456	4.26
ρ	771.1	149.2
η	547.3	0.00118
ω	782.57	8.44
a_0	984.7	50.0* (50-100)

K[±] decays - Branching Ratios

$\mu\nu$	0.6343
$\pi\pi$	0.2113
$\pi^+\pi^-\pi^\pm$	0.05576
K_{e3}	0.0487
$K_{\mu3}$	0.0327
$\pi^0\pi^0\pi^\pm$	0.0173
$K_{e4} (\pi^+\pi^-)$	0.0000408
$K_{e4} (\pi^0\pi^0)$	0.000021
$K_{\mu4} (\pi^+\pi^-)$	0.000014
$K_{\mu4} (\pi^0\pi^0)$	0.000007*

η decays - Branching Ratios

$\gamma\gamma$	0.3943
$\pi^0\pi^0\pi^0$	0.3251
$\pi^+\pi^-\pi^0$	0.226
$\pi^+\pi^-\gamma$	0.0468
$e^+e^-\gamma$	0.006
$\pi^0\gamma\gamma$	0.00072
$\gamma\gamma\gamma$	0.0005 ^L

η' decays - Branching Ratios

$\eta \pi^+ \pi^-$	0.443
$\rho \gamma$	0.295
$\eta \pi^0 \pi^0$	0.209
$\omega \gamma$	0.0303
$\gamma \gamma$	0.0212
$\pi^0 \pi^0 \pi^0$	0.00156

ω decays - Branching Ratios

$\pi^+ \pi^- \pi^0$	0.891
$\pi^0 \gamma$	0.087
$\pi^+ \pi^-$	0.017
$\eta \gamma$	0.00065

3- π decays- Dalitz plot parameters

$$M^2 \propto 1 + g (s_3 - s_0)/m_\pi^2 + h ((s_3 - s_0)/m_\pi^2)^2 + k ((s_2 - s_1)/m_\pi^2)^2$$

$$s_i = (\mathbf{P}_k - \mathbf{P}_i)^2$$

$$s_0 = \langle s \rangle$$

	g	h	k
$K^\pm \rightarrow \pi^0 \pi^0 \pi^\pm$	0.652	0.057	0.0197
$K^\pm \rightarrow \pi^+ \pi^- \pi^\pm$	-0.2154	0.012	-0.0101
$K_L \rightarrow \pi^+ \pi^- \pi^0$	0.678	0.076	0.0099
$K_S \rightarrow \pi^+ \pi^- \pi^0$			
$K_L \rightarrow \pi^0 \pi^0 \pi^0$		-0.005	

K_{l3} decays- Dalitz plot parameters

	λ_+	λ_0
$K^\pm \rightarrow \pi e \nu$	0.0282	
$K^\pm \rightarrow \pi \mu \nu$	0.0282	0.004
$K_L \rightarrow \pi e \nu$	0.03	
$K_L \rightarrow \pi \mu \nu$	0.03	0.03