

Particles with di-muon decay

Bosons

Particle	Mass (GeV)	Decay Fraction (%)	Comments
Z	91.2	3.366	

Mesons

Particle	Mass (GeV)	Decay Fraction (%)	Quark Content	Comments
$\eta$	0.55	$5.8 \times 10^{-6}$	$\frac{u\bar{u} + d\bar{d} - 2s\bar{s}}{\sqrt{6}}$	Discovered in 1961 at the Lawrence Berkeley National Laboratory.
$\rho(770)$	0.775	$4.55 \times 10^{-5}$	$\frac{u\bar{u} - d\bar{d}}{\sqrt{2}}$	
$\omega(782)$	0.782	$9.0 \times 10^{-5}$	$\frac{u\bar{u} + d\bar{d}}{\sqrt{2}}$	
$K^0$	0.50	$9.0 \times 10^{-9}$	$d\bar{s}$	
$D^0$	1.86	$6.2 \times 10^{-9}$	$c\bar{u}$	
$\phi(1020)$	1.02	$2.87 \times 10^{-4}$	$s\bar{s}$	
$B^0$	5.28	$1.8 \times 10^{-10}$	$d\bar{b}$	
$B_s^0$	5.37	$2.9 \times 10^{-9}$	$s\bar{b}$	
$J/\psi(1S)$	3.01	5.961	$c\bar{c}$	
$\psi(2S)$	3.69	$7.9 \times 10^{-3}$	$c\bar{c}$	
$\psi(4160)$	4.19	Seen	$c\bar{c}$	
$\eta^b(1S)$	9.40	$9 \times 10^{-3}$	$b\bar{b}$	Discovered at Fermilab in 1977, it was the first particle discovered that contained a bottom quark.
$Y(1S)$	9.46	2.48	$b\bar{b}$	
$Y(2S)$	10.02	1.93	$b\bar{b}$	
$Y(3S)$	10.36	2.18	$b\bar{b}$	