

Mesons

Baryons

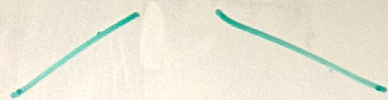
J^P

$$\vec{J} = \vec{L} + \vec{S}$$

$$= \vec{S}_1 + \vec{S}_2$$

$q \bar{q} q$

$q \bar{q}$



P
 $\downarrow \uparrow - \uparrow \downarrow$
 $\frac{1}{\sqrt{2}}$
 $S=0$

$\uparrow \uparrow$
 $S=1$

π^0
 $J^P=0^-$

π^-
 $L=0$

$J^P=1^-$

ρ^+

ρ^0

ρ^-

$\frac{u\bar{u} - d\bar{d}}{\sqrt{2}}$

$s\bar{u}$
 K^-

$s\bar{d}$
 K^0

$d\bar{s}$
 $\bar{K}^0$

$u\bar{s}$
 K^+

$s\bar{s}$
 η'

$\eta = \frac{u\bar{u} + d\bar{d}}{\sqrt{2}}$

K^*

ω

ϕ

$$C \bar{C} = J/\psi$$