

# PHYSICS 225 A - HOMEWORK ~~4~~ 4

1

1

(a)  $\sigma$  spinless, all angular momentum orbital

Parity:  $(-1)^L \Rightarrow J^P = 0^+, 1^-, 2^+$

This does not explain quantum numbers of actual mesons, eg  $\pi$  is  $0^-$

(b)  $P(\sigma, v_s) = (-1)(-1)^L = (-1)^{L+1}$

$L=0$	$\rightarrow$	$J=1$	$\rightarrow$	$1^-$	}	Inconsistent with pseudoscalar meson quantum numbers
$L=1$	$\rightarrow$	$J=0, 1, 2$	$\rightarrow$	$0^+, 1^-, 2^+$ , ...		
$L=2$	$\rightarrow$	$J=1, 2, 3$	$\rightarrow$	$1^-, 2^-, 3^+$ , ...		

2

(a)  $3 \otimes 3 = 6 \oplus \bar{3}$  (Halzen and Martin, Figure 2.6)

(b) 6 is flavor symmetric, one isospin triplet  
 one isospin doublet  
 one isospin singlet



$\bar{3}$  is flavor antisymmetric, one isospin doublet  
 one isospin singlet



(c) Lowest mass,  $L=0 \Rightarrow P = (-1)^L = +1$

$|\psi\rangle = |\text{spin}\rangle |\text{space}\rangle |\text{flavor}\rangle |\text{color}\rangle$

↑  
symmetric  
for  $L=0$

↑  
antisymmetric

$S=1$  symmetric  $\Rightarrow$  6 representation,  $J^P = 1^+$   
 $S=0$  antisymmetric  $\Rightarrow$   $\bar{3}$  representation,  $J^P = 0^+$

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