

Model	LS couplings	Free parameters
NR $J^P(X) = 1^{--}$	$(L, S)_{B_s^0} = (0, 0), (2, 2), (L, S)_X = (0, 1), (2, 1)$	$(A, \phi)_{L_{B_s^0}=2}, (A, 0)_{L_X=2}$
$J^P(P_c) = 1/2^+$	$(L, S) = (0, 0), (l, s) = (1, 1/2)$	$(A, 0)$
$J^P(P_c) = 1/2^-$	$(L, S) = (0, 0), (l, s) = (0, 1/2)$	(A, ϕ)
$J^P(P_c) = 3/2^-$	$(L, S) = (1, 1), (l, s) = (0, 3/2)$	$(A, 0)$
$J^P(P_c) = 3/2^+$	$(L, S) = (1, 1), (l, s) = (1, 1/2)$	(A, ϕ)