

Physics 712 Homework #19

1. Consider the decay $\bar{B}^0 \rightarrow D_2^{*+} \pi^-$ followed by the decay $D_2^{*+} \rightarrow D^0 \pi^+$. What is the angular distribution in the decay of the D_2^{*+} and why? Specifically, consider the distribution in terms of the angle between the two pions in the rest frame of the D_2^{*+} . The \bar{B}^0 , D^0 and π^+ are all pseudoscalars, while the D_2^{*+} is a spin-2 particle.