

Worksheet # 1

Friday, April 5, 2024

Name**Question (5 pts):**

As we discussed, the probability of transition from some initial state a to some final state b as a result of interaction with EM field is proportional to $t^2 \text{sinc}^2((\omega_{ba} - \omega)t/2)$. Sketch this function vs ω . Indicate the amplitude and the first zeroes. Analyze and comment on your result – what physical picture and trends do you see?