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Reading Assignment: Chapter 9.3

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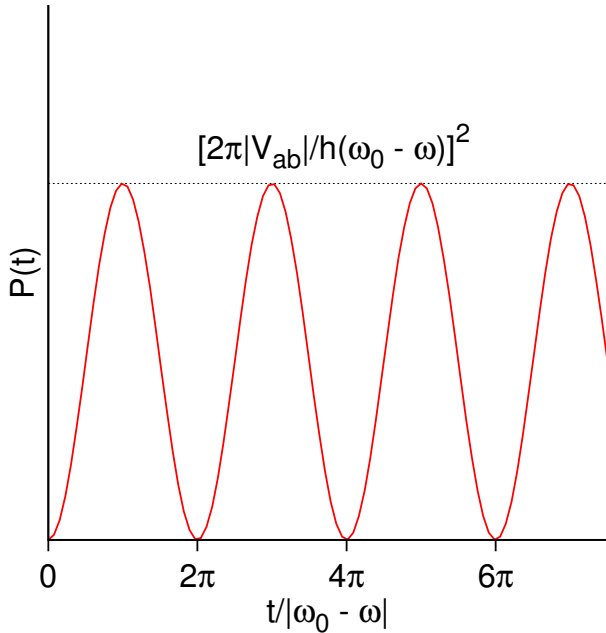
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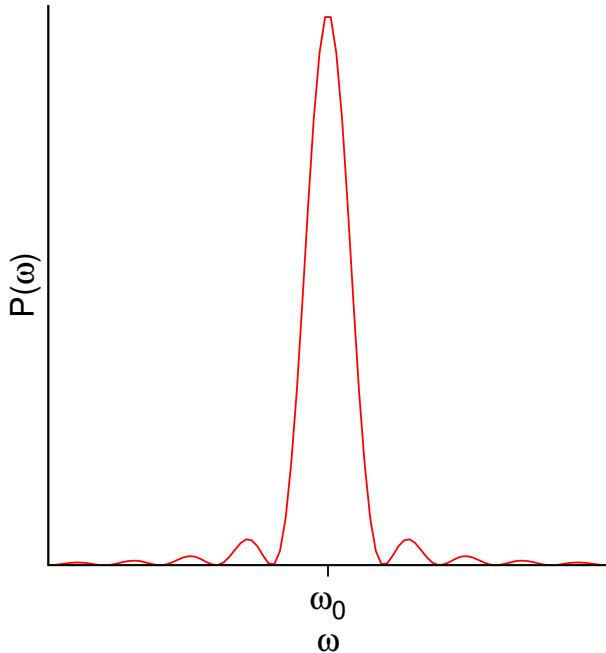
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Homework Assignment #06:

Chapter 9:1,3,5,8,15,17

due Wednesday, March 13, 2013





## Problem 9.4

Suppose you don't assume that  $H'_{aa} = H'_{bb} = 0$ . Find  $c_a(t)$  and  $c_b(t)$  in first-order perturbation theory, for the case  $c_a(0) = 1$ ,  $c_b(0) = 0$ , show that the time-dependent coefficients are normalized to first order in  $H'$ .