$$A \begin{cases} C_{1}(t) = \frac{i36}{2h} e^{i\Delta t} C_{2}(t) \\ \frac{2h}{2h} e^{i\Delta t} C_{3}(t) \end{cases}$$

$$A \sum_{k \neq 1} \text{ for a two RWA}$$

$$C_{2}(t) = \frac{i36}{2h} e^{i\Delta t} C_{3}(t)$$

$$A : w - Q$$

$$A : w - Q$$

$$A : w - Q$$

$$C_{1}(t) = \frac{iQ_{2}}{2} e^{i\Delta t} C_{3}(t)$$

$$C_{1}(t) = \frac{iQ_{2}}{2} e^{i\Delta t} C_{3}(t) + \frac{iQ_{2}}{2} e^{i\Delta t} \frac{iQ_{2}}{2} e^{i\Delta t} \frac{iQ_{2}}{2} e^{i\Delta t} C_{3}(t) \Rightarrow$$

$$C_{1}(t) = \frac{iQ_{2}}{2} e^{i\Delta t} C_{3}(t) + \frac{iQ_{2}}{2} e^{i\Delta t} C_{3}(t) + \frac{Q_{2}^{2}}{2} e^{i\Delta t} C_{3}(t) \Rightarrow$$

$$C_{1}(t) = \frac{iQ_{2}}{2} e^{i\Delta t} C_{3}(t) + \frac{iQ_{2}}{2} e^{i\Delta t} C_{3}(t) + \frac{Q_{2}^{2}}{2} C_{3}(t) \Rightarrow$$

$$C_{2}(t) = \frac{iQ_{2}}{2} (-i\Delta) e^{i\Delta t} C_{3}(t) + \frac{iQ_{2}}{2} e^{i\Delta t} C_{3}(t) \Rightarrow$$

$$C_{2}(t) = \frac{iQ_{2}}{2} (-i\Delta) e^{i\Delta t} C_{3}(t) \Rightarrow$$

$$C_{3}(t) = \frac{iQ_{2}}{2} (-i\Delta) e^{i\Delta t} C_{3}(t) \Rightarrow$$

$$C_{3}(t) = \frac{iQ_{2}}{2} (-i\Delta) e^{i\Delta t} C_{3}(t) \Rightarrow$$

$$C_{4}(t) = \frac{iQ_{2}}{2} e^{i\Delta t} C_{3}(t) \Rightarrow$$

$$C_{5}(t) = \frac{iQ_{2}}{2} e^{i\Delta t} C_{3}(t) \Rightarrow$$

$$C_{7}(t) = \frac{iQ_{2}}{2} e^{i\Delta t} C_{3}(t) \Rightarrow$$

$$C_{8}(t) = C_{1}(t) e^{i\Delta t} C_{3}(t) \Rightarrow$$

$$C_{1}(t) = C_{1}(t) e^{i\Delta t} C_{3}(t) \Rightarrow$$

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$$C_{2}(t) = C_{1}(t) e^{i\Delta t} C_{3}(t) \Rightarrow$$

$$C_{3}(t) = C_{1}(t) e^{i\Delta t} C_{3}(t)$$

$$\Delta_{1} = \Delta^{2} - 4(-1) \frac{\Omega_{k}^{2}}{4} = \Delta^{2} + \Omega_{k}^{2}$$

$$P_{1} = \frac{-\Delta \pm \sqrt{\Delta^{2} + \Omega_{k}^{2}}}{-2} \Rightarrow P_{1} = \frac{\Delta}{2} \pm \frac{\sqrt{\Delta^{2} + \Omega_{k}^{2}}}{2} \Rightarrow P_{1} = \frac{\Delta}{2} \pm \lambda$$

$$\Delta_{2} = (-\Delta)^{2} - 4(-1) \frac{\Omega_{k}^{2}}{4} = \Delta^{2} + \Omega_{k}^{2}$$

$$P_{2} = \frac{+\Delta \pm \sqrt{\Delta^{2} + \Omega_{k}^{2}}}{-2} \Rightarrow P_{2} = -\frac{\Delta}{2} \pm \frac{\sqrt{\Delta^{2} + \Omega_{k}^{2}}}{2} \Rightarrow P_{2} = -\frac{\Delta}{2} \pm \lambda$$

$$A_{2} = (-\Delta)^{2} - 4(-1) \frac{\Omega_{k}^{2}}{4} = \Delta^{2} + \Omega_{k}^{2}$$

$$P_{2} = \frac{+\Delta \pm \sqrt{\Delta^{2} + \Omega_{k}^{2}}}{-2} \Rightarrow P_{2} = -\frac{\Delta}{2} \pm \lambda$$

$$A_{2} = (-\Delta)^{2} - 4(-1) \frac{\Omega_{k}^{2}}{4} = \Delta^{2} + \Omega_{k}^{2}$$

$$P_{2} = \frac{+\Delta \pm \sqrt{\Delta^{2} + \Omega_{k}^{2}}}{2} \Rightarrow P_{2} = -\frac{\Delta}{2} \pm \lambda$$

$$A_{2} = (-\Delta)^{2} - 4(-1) \frac{\Omega_{k}^{2}}{4} = \Delta^{2} + \Omega_{k}^{2}$$

$$P_{2} = \frac{+\Delta \pm \sqrt{\Delta^{2} + \Omega_{k}^{2}}}{2} \Rightarrow P_{2} = -\frac{\Delta}{2} \pm \lambda$$

$$A_{2} = (-\Delta)^{2} - 4(-1) \frac{\Omega_{k}^{2}}{2} = \Delta^{2} + \Delta^{2} = \Delta^{2} \pm \lambda$$

$$A_{3} = (-\Delta)^{2} - 4(-1) \frac{\Omega_{k}^{2}}{2} = \Delta^{2} + \Delta^{2} = \Delta^{2} \pm \lambda$$

$$A_{4} = \frac{\Delta^{2} + \Delta^{2} + \Omega_{k}^{2}}{2} \Rightarrow P_{4} = -\frac{\Delta}{2} \pm \lambda$$

$$A_{4} = \frac{\Delta^{2} + \Delta^{2} + \Omega_{k}^{2}}{2} \Rightarrow P_{4} = -\frac{\Delta^{2} + \Delta^{2} + \Delta^{2}}{2} \Rightarrow P_{4} = -\frac{\Delta}{2} \pm \lambda$$

$$A_{4} = (-\Delta)^{2} - 4(-\Delta)^{2} + \Delta^{2} = \Delta^{2} + \Delta^{2} + \Delta^{2} = \Delta^{2} = \Delta^{2} + \Delta^{2} = \Delta^{2} = \Delta^{2} + \Delta^{2} = \Delta^{2} =$$

Tir Soriyépoye Twpa oris A) you A = NX2+Q2=3412=12+Q2 3 <u>i ≥ e</u> [ae + βe] + e [α[λ e + β(-ω) e] = Our eist = [reitseist] => Satal = Sey Kai Sp-Bl=Ses $\frac{\Delta\alpha + 2\alpha\lambda}{2} = \frac{\Omega\rho}{2}$ $\frac{\Delta\beta - 2\beta\lambda}{2} = \frac{\Omega\rho}{2}$ $\frac{2}{2} = \frac{\Delta}{2}$ $\frac{2}{2} = \frac{\Delta}{2}$ $\frac{2}{2} = \frac{\Delta}{2}$ $\frac{2}{2} = \frac{\Delta}{2}$ $\frac{2}{2} = \frac{\Delta}{2} = \frac{$ - () = () = () e + 5 e () + = () + = () [x () e + 5 () e ()] = Ole evat eist [aeist peut] => $-\frac{\Delta}{9}9+8\lambda=\frac{\Omega_{e}}{9}\alpha \quad \text{kai} \quad -\frac{\Delta}{9}5-8\lambda=\frac{\Omega_{e}}{8}\beta$ $\frac{-\Delta y + 2\pi \lambda}{2} = \frac{\Omega R}{2} \alpha \quad \text{Kar} \quad \frac{-\Delta \delta - 2\delta \lambda}{2} = \frac{\Omega R}{2} \beta$ $\alpha = \frac{-\Delta + 2\lambda}{\Omega R}$ $Roi \beta = \frac{-\Delta - 2\lambda}{\Omega R}$ $\chi = \frac{(2\lambda + \Delta)}{\Omega_0}, \frac{(2\lambda - \Delta)}{\Omega_0} \chi \Rightarrow \frac{4\lambda^2 - \Delta^2}{\Omega_0^2} = 1$ to onor regular $S = \frac{(\Delta - 2\lambda)}{\Omega R}, \frac{-(\Delta + 2\lambda)}{\Omega R}, \frac{\Delta}{\Omega R} = \frac{\Delta^2 - 4\lambda^2}{\Omega R} = 1$ 76 500 3000 30000 [C1(t)=eint [aeist+Beist]

"Estimate of apprint surfaces (A-
$$\Sigma$$
) $C_1(0)=4$, $C_2(0)=0$



$$1 = \alpha + \beta$$

$$0 = \alpha \frac{\Delta + 2\lambda}{\Delta p} + \beta \frac{\Delta - 2\lambda}{\Delta p} \Rightarrow \alpha (\Delta + 2\lambda) = \beta (2\lambda - \Delta) \Rightarrow \beta$$

$$\beta = \frac{2\lambda + \Delta}{2\lambda - \Delta}$$

$$1 = \alpha + \frac{2\lambda + \Delta}{2\lambda - \Delta} \quad \alpha = \alpha \quad \frac{2\lambda - \Delta + 2\lambda + \Delta}{2\lambda - \Delta} \Rightarrow (2\lambda - \Delta) = \alpha + \lambda$$

$$\Rightarrow \alpha = \frac{2\lambda - \Delta}{4\lambda} \quad \beta = \frac{2\lambda + \Delta}{2\lambda - \Delta} \Rightarrow \beta = \frac{2\lambda + \Delta}{4\lambda}$$

$$G(t) = e^{i\frac{\Delta}{2}t} \left[\frac{2\lambda - \Delta}{4\lambda} e^{i\lambda t} + \frac{2\lambda + \Delta}{4\lambda} e^{i\lambda t} \right]$$

$$C_{g}(t) = e^{-\frac{i\Delta t}{2}t} \left[\frac{\Delta + 2\lambda}{SR} \frac{2\lambda - \Delta}{4\lambda} e^{-\frac{i\lambda t}{2}} \frac{\Delta - 2\lambda}{SR} \frac{2\lambda + \Delta}{4\lambda} e^{-\frac{i\lambda t}{2}} \right]$$

$$\frac{4\lambda^2 - \lambda^2}{4 \Omega_R \lambda} = \frac{\lambda + \Omega_R \lambda}{4 \Omega_R \lambda} = \frac{\Omega_R}{4\lambda}$$

$$\frac{\lambda^2 - 4\lambda^2}{4 \Omega_R \lambda} = \frac{\lambda^2 - \Delta^2 - \Omega_R^2}{4 \Omega_R \lambda} = \frac{\Omega_R}{4\lambda}$$

$$\frac{\Delta^2 - 4\lambda^2}{4 \Omega_R \lambda} = \frac{\lambda^2 - \Delta^2 - \Omega_R^2}{4\lambda} = \frac{\Omega_R}{4\lambda}$$

$$C_{2}(t) = e^{i\frac{2}{3}t} \left[\frac{\Omega_{R}}{4\lambda} e^{i\lambda t} \frac{\Omega_{R}}{4\lambda} e^{i\lambda t} \right] \Rightarrow C_{2}(t) = e^{-i\frac{2}{3}t} \frac{\Omega_{R}}{4\lambda} 2isin(At)$$