$$V(t) = e^{-\gamma t}\int_{-T}^{t}(-a)e^{\gamma t'}w(t')\,dt'$$

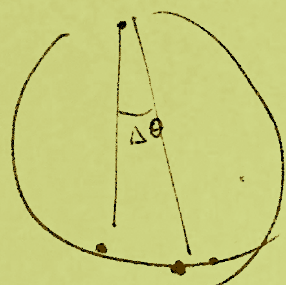
$$w(t) = \int_{-T}^{t} V(t')\,dt'$$

$$C = \int_{-T} a e^{\gamma t} w(t)$$

$$V(t) = e^{-\gamma t}\int_{-T}^{t} -a e^{\gamma t'} w(t')\,dt$$

$$\frac{w-w_0-i/2\Gamma}{(w-w_0)^2}$$

$$\frac{1}{w-w_0+\frac{i}{2\Gamma}}$$



$\Delta\theta$

$$\frac{2\Delta f}{\Gamma}$$

$$\frac{1}{\Delta f + \frac{i\Gamma}{2}} = \frac{\Delta f}{\Gamma/2} = \frac{2\Delta f}{\Gamma}$$

$$\dot V = -\gamma V(t) - a\,w(t)$$

$$\frac{2}{\Gamma} \qquad \frac{1}{\Gamma}\cdot(1-\cos 2\theta)$$

$$\frac{\Delta f}{\Gamma} \qquad \Delta\theta$$

$$\Delta f = -a\Gamma\,\Delta\theta$$

$$\frac{1}{\Gamma}\,2\Delta\theta^2$$

$$\frac{2\Delta f}{\Gamma} = \Delta\theta$$

$$\ddot{\Delta\theta} = -\frac{g}{L}\Delta\theta - \gamma\dot{\Delta\theta}$$

$$\frac{g}{L} \to w_0^2$$

$$\dot w = -\gamma w - w_0^2\,\Delta\theta(t)$$

$$\ddot{\Delta\theta} = -\frac{4}{\Gamma}\cdot\Delta\theta$$

$$w = e^{-\gamma t}\int^{t}(-w_0^2)e^{\gamma t'}\Delta\theta(t')\,dt'$$

$$m\ddot{\Delta\theta} = -g\cdot\frac{4}{\Gamma}\Delta\theta - \gamma\dot{\Delta\theta}$$

$$\Delta\theta = \int^{t} w\,dt$$

$$\dot w = -\gamma w - w_0^2\,\Delta\theta$$

$$\dot\theta = w$$