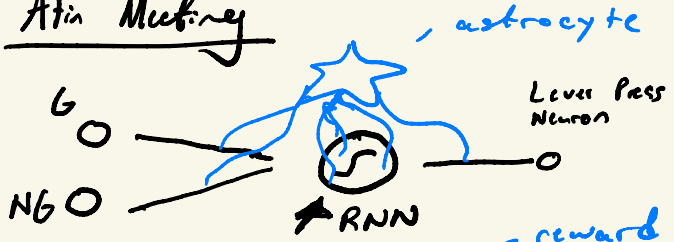
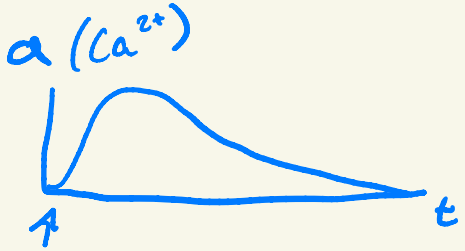
Atin Meeting



reward prediction error

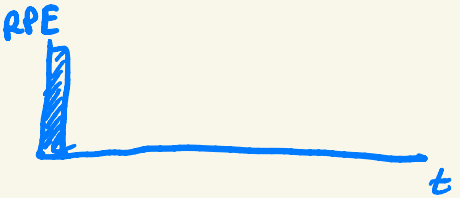
$$\Delta w \propto \frac{\partial R}{\partial w} \propto \underbrace{a * pre * post}_{\text{Three-factor plasticity rules}}$$



$$\tau_a \frac{da}{dt} = -\gamma a + RPE(t)$$

from LE

$$a = P_{ij} = P_{kl}$$



Low-pass filter

$$\frac{dx}{dt} = -\lambda x + \underbrace{u(t)}_{\text{signal}}$$

$$x(t) = \frac{w \sin(tw)}{w^2+1} + \frac{\cos(wt)}{w^2+1}$$

Suppose $u(t) = \sin(wt)$

$\lambda = 1$