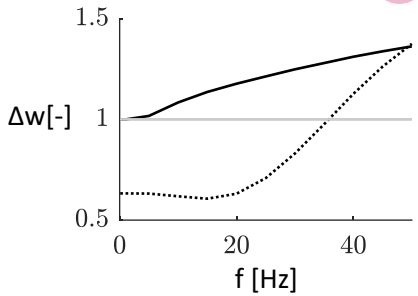
Ref
Graupner 2016

Region
Cortex

Bounds
Soft

Fit



Equation

$$\frac{dx}{dt} = -\frac{x}{\tau_+} + \delta(t_{pre} - t) \qquad \frac{dy}{dt} = -\frac{y}{\tau_-} + \delta(t_{post} - t)$$

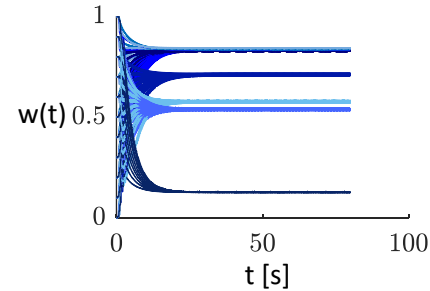
$$\frac{dx_2}{dt} = -\frac{x_2}{\tau_x} + \delta(t_{pre} - t) \qquad \frac{dy_2}{dt} = -\frac{y_2}{\tau_y} + \delta(t_{post} - t)$$

$$w_{updated} = w + x(t)(1 - w)\,(A_2^- + A_3^- y_2\,(t - \varepsilon) \quad if\ t = t_{post}$$

$$w_{updated} = w - y(t)w(A_2^+ + A_3^+ x_2\,(t - \varepsilon) \quad if\ t = t_{pre}$$

$$\tau_w \frac{dw}{dt} = (w_{updated} - w)$$

Reset



Parameters

A_2^+ = 0	τ_+ = 16.8
A_2^- = 0	τ_- = 33.7
A_3^+ = 0.016574	τ_x = 0
A_3^- = 0.0082647	τ_y = 56.3823