Filtered spike train

$$\frac{\mathrm{d}r_i}{\mathrm{d}t} = -\frac{r_\mathrm{i}}{\tau_d} + h_\mathrm{i}$$

$$\frac{\mathrm{d}h_i}{\mathrm{d}t} = -\frac{h_\mathrm{i}}{\tau_r} + \frac{1}{\tau_r \tau_d} \sum_{t_i^k < t} \delta(t - t_i^k)$$