Firing rate oscillations become more robust with increased values for τ_{GABA}. For instance, here is just one set of parameters with $\tau_{GABA} = 15ms$ instead of $5ms$.

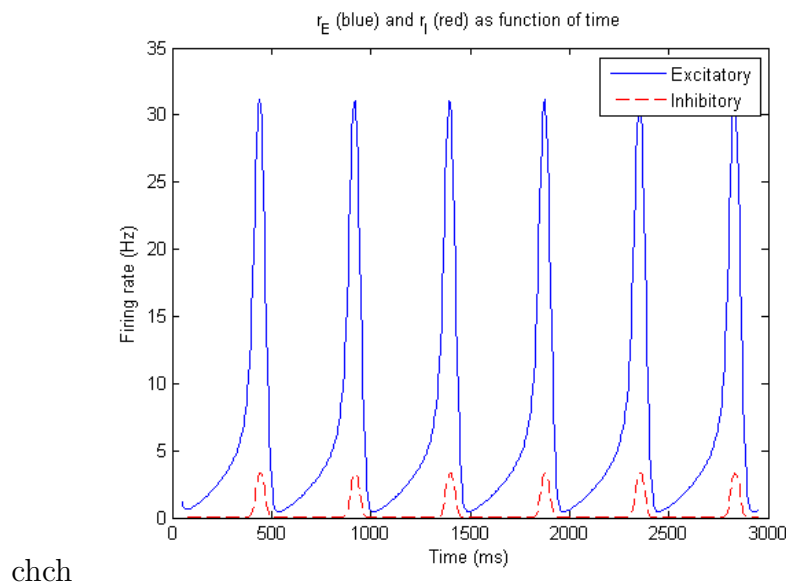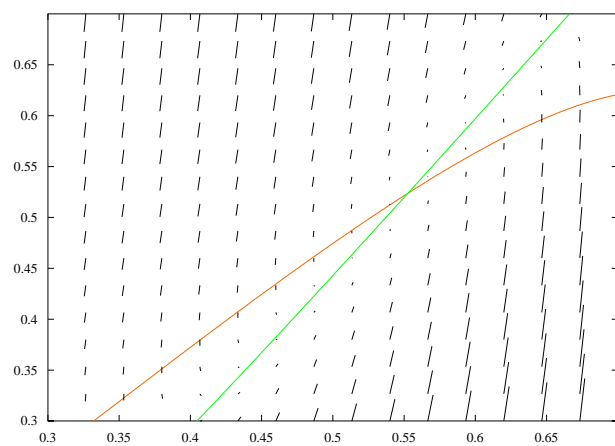
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Figure 1: Firing rates of excitatory and inhibitory units with respect to time, for $10,000ms$ total. Parameters: $\tau_I = 15ms; Jee = 0.94; Jii = 0.40; Jei = 0.82; Jie = 0.66; \tau_E = 100; c_E = 310; c_I = 615; Io = .1; eIth = 125; iIth = 177; Is = .26; a = .64; gi = .087; g_E = .16; \tau_{re} = 2; \tau_{ri} = 1$

Currently working on Incorporate the second column How oscillations depend on Jee and Jie Incorporate AMPA into the synapses

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Figure 2: Local flow of solutions for the above parameters.