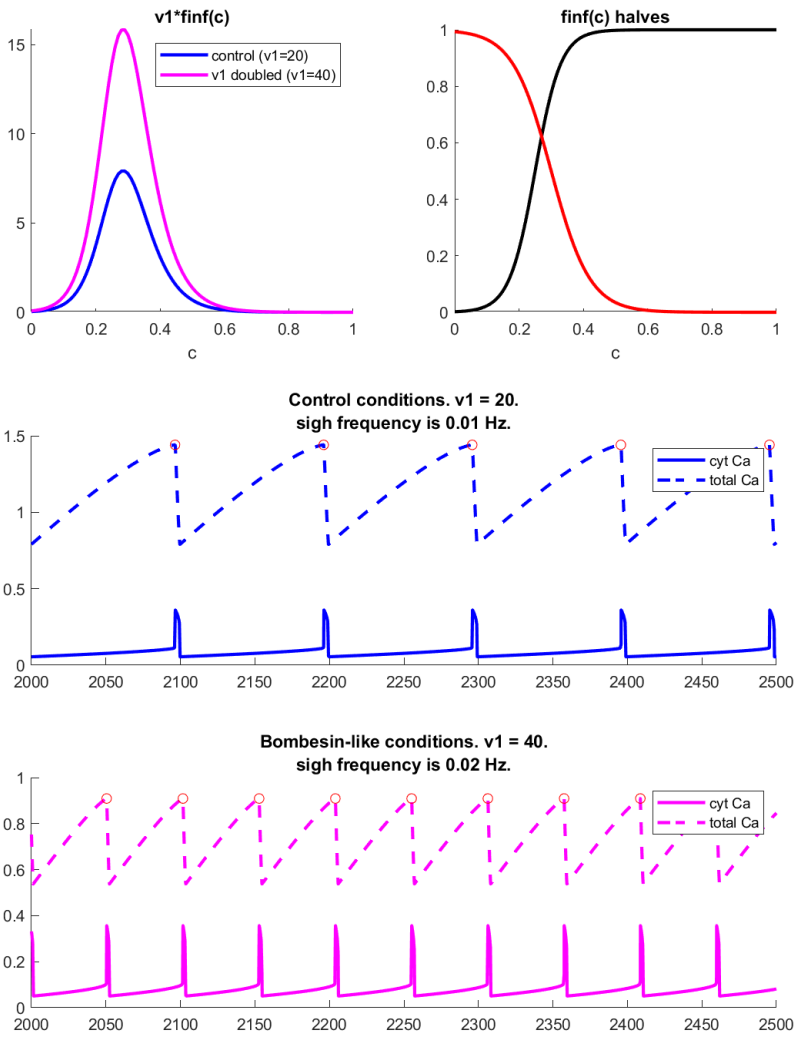


Closed Ca²⁺ sub-system

Increasing peak ER Ca²⁺ efflux via simulated application of NMB

$$\frac{dc}{dt} = \left[v_1 f_{\infty}(c) + v_2 \right] [c_{er} - c] - \frac{v_3 c^2}{k_3^2 + c^2} + j_0 - \frac{v_4 c^4}{k_4^4 + c^4}$$

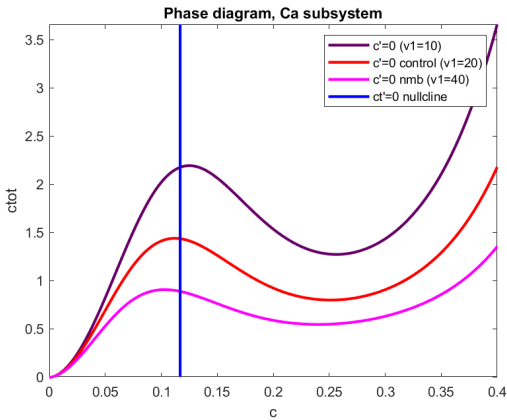
$$\frac{dc_{tot}}{dt} = j_0 - \frac{v_4 c^4}{k_4^4 + c^4}$$



Doubling v1 (peak Ca²⁺) doubles sigh rhythm frequency

What is *v*₁ changing in the model?

Observing the nulu lines in the phase diagram.



Observing the bifurcation diagram with *v*₁. Note, we needed to scale cyt. Ca dynamics by 1/10.

