$$\nu_{Na} = 115 \text{mV}$$
,  $\nu_{K} = -12 \text{mV}$ ,  $\nu_{Na} = 10.6 \text{mV}$ ,  $C = 1 \mu \text{Farad/cm}^{2}$ ,

where " $\Omega$ " is one Ohm, the unit of resistance.

Non-dimensionalise with  $v = \nu/\nu_{Na}$  and  $\tau = t/[5ms]$ , as  $\tau_n(\nu) \sim O(5ms)$ , and we have

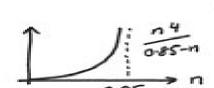
$$e \frac{dv}{d\tau} = I_{est}^{\star} - g(v, n) \stackrel{\text{def}}{=} I_{est}^{\star} - \left[ m_{\infty}^{3}(v)(0.85 - n)(v - 1) + \gamma_{K}n^{4}(v + v_{K}) + \gamma_{L}(v - v_{L}) \right]$$
  
 $\frac{dn}{d\tau} = k(v, n) \stackrel{\text{def}}{=} \frac{1}{\tau_{+}^{*}(v)} \left[ n_{\infty}(v) - n \right],$  (21)

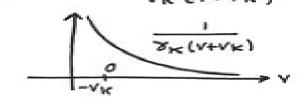
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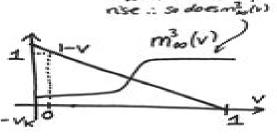
$$\begin{split} \epsilon &= \frac{C}{G_{Na}[5\text{ms}]} = 2 \times 10^{-3}, \ \, \gamma_K = \frac{G_K}{G_{Na}} \sim 0.3, \ \, \gamma_L = \frac{G_L}{G_{Na}} \sim 3 \times 10^{-3}, \\ I_{ext}^* &= \frac{I_{ext}}{G_{Na}\nu_{Na}}, \ \, v_K = -\frac{\nu_K}{\nu_{Na}} \sim 0.1, \ \, v_L = -\frac{\nu_L}{\nu_{Na}} \sim 0.1, \ \, \tau_n^*(v) = \tau_n(\nu)/[5\text{ms}] \sim O(1). \end{split}$$

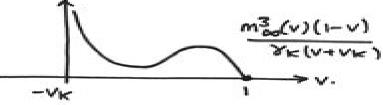
We can now sketch the nullclines, and noting the different timescales of the membrane potential response to the gating variable response (as  $\epsilon \ll 1$ ) we can consider the phase plane trajectories in terms of fast and slow dynamics.

Plotting nullclines.  $I_{ext}^* = 0$ .









# **Mathematical Physiology**

Willy H. Verheye

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