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

where " Ω " 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

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

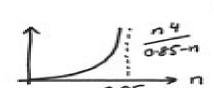
 $\frac{dn}{d\tau} = k(v, n) \stackrel{\text{def}}{=} \frac{1}{\tau_{+}^{*}(v)} \left[n_{\infty}(v) - n \right],$ (21)

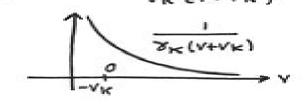
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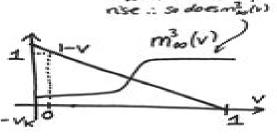
$$\begin{split} \epsilon &= \frac{C}{G_{Na}[5\text{ms}]} = 2 \times 10^{-3}, \ \, \gamma_K = \frac{G_K}{G_{Na}} \sim 0.3, \ \, \gamma_L = \frac{G_L}{G_{Na}} \sim 3 \times 10^{-3}, \\ I_{ext}^* &= \frac{I_{ext}}{G_{Na}\nu_{Na}}, \ \, v_K = -\frac{\nu_K}{\nu_{Na}} \sim 0.1, \ \, v_L = -\frac{\nu_L}{\nu_{Na}}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

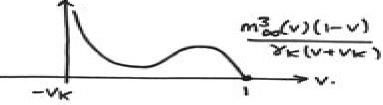
We can now sketch the nullclines, and noting the different timescales of the membrane potential response to the gating variable response (as $\epsilon \ll 1$) we can consider the phase plane trajectories in terms of fast and slow dynamics.

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









Mathematical Physiology

Jiyuan Zhang

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- 1. Understanding the eBook Mathematical Physiology
 - The Rise of Digital Reading Mathematical Physiology
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mathematical Physiology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematical Physiology
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematical Physiology
 - Personalized Recommendations
 - Mathematical Physiology User Reviews and Ratings
 - Mathematical Physiology and Bestseller Lists
- 5. Accessing Mathematical Physiology Free and Paid eBooks
 - Mathematical Physiology Public Domain eBooks
 - Mathematical Physiology eBook Subscription Services
 - Mathematical Physiology Budget-Friendly Options
- 6. Navigating Mathematical Physiology eBook Formats

- ∘ ePub, PDF, MOBI, and More
- Mathematical Physiology Compatibility with Devices
- Mathematical Physiology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematical Physiology
 - Highlighting and Note-Taking Mathematical Physiology
 - Interactive Elements Mathematical Physiology
- 8. Staying Engaged with Mathematical Physiology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematical Physiology
- 9. Balancing eBooks and Physical Books Mathematical Physiology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematical Physiology
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematical Physiology
 - Setting Reading Goals Mathematical Physiology
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematical Physiology
 - Fact-Checking eBook Content of Mathematical Physiology
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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