

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

where " Ω " is one Ohm, the unit of resistance.

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

$$\begin{aligned} \epsilon \frac{dv}{d\tau} &= I_{ext} - g(v, n) \stackrel{\text{def}}{=} I_{ext} - [m_{\infty}^3(v)(0.85 - n)(v - 1) + \gamma_K n^4(v + v_K) + \gamma_L(v - v_L)] \\ \frac{dn}{d\tau} &= k(v, n) \stackrel{\text{def}}{=} \frac{1}{\tau_n^*(v)} [n_{\infty}(v) - n], \end{aligned} \quad (21)$$

with

$$\epsilon = \frac{C}{G_{Na}[5\text{ms}]} = 2 \times 10^{-3}, \quad \gamma_K = \frac{G_K}{G_{Na}} \sim 0.3, \quad \gamma_L = \frac{G_L}{G_{Na}} \sim 3 \times 10^{-3},$$

$$I_{ext} = \frac{I_{ext}}{G_{Na}v_{Na}}, \quad v_K = -\frac{v_K}{v_{Na}} \sim 0.1, \quad v_L = -\frac{v_L}{v_{Na}} \sim 0.1, \quad \tau_n^*(v) = \tau_n(v)/[5\text{ms}] \sim O(1).$$

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.

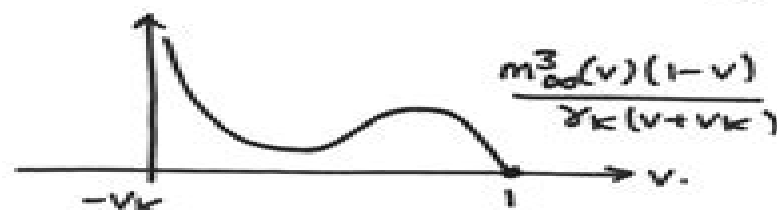
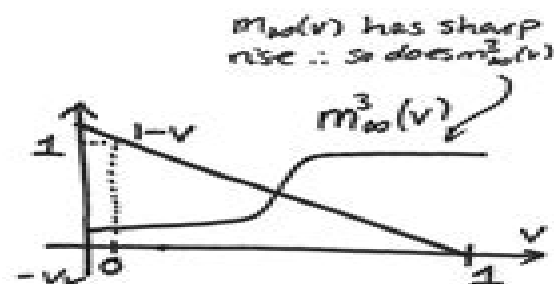
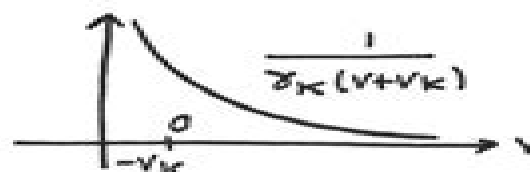
Plotting nullclines. $I_{ext} = 0$.

$$\begin{aligned} -\epsilon dv/d\tau = g &= m_{\infty}^3(v)(0.85 - n)(v - 1) + \gamma_K n^4(v + v_K) + \gamma_L(v - v_L) \\ dn/d\tau = k &= \frac{1}{\tau_n^*(v)} [n_{\infty}(v) - n] \end{aligned}$$

γ_L small: neglect this below.

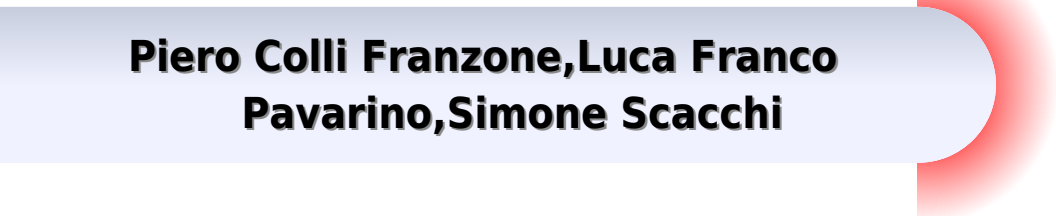
v nullcline

$$\frac{n^4}{0.85 - n} = \frac{m_{\infty}^3(v)(1 - v)}{\gamma_K(v + v_K)}$$



Mathematical Physiology

**Piero Colli Franzone, Luca Franco
Pavarino, Simone Scacchi**



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Table of Contents Mathematical Physiology

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
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 - Mathematical Physiology Budget-Friendly Options
- 6. Navigating Mathematical Physiology eBook Formats
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 - 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
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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