

PHY 365L Final Project: Neural Circuits

Faris Sbahi

ABSTRACT. In this project, we construct and study circuits which are meant to model the actions potentials of several classes of neurons. We aim to understand the fundamentals of electronics in addition to those of cell and molecular biology of nerve cells.

Introduction

The essence of nervous system function is signaling, or transferring information.

CHAPTER 1

Axons

1. Introduction

Bibliography

- [1] Lloyd R Fortney. *Principles of electronics: analog and digital*. Oxford University Press, 1987.
- [2] Irwin B Levitan and Leonard K Kaczmarek. *The neuron: cell and molecular biology*. Oxford University Press, USA, 2015.