## **Main Reference**

• Gross-Some Physics for Mathematicians

Online Notes: http://www.math.cornell.edu/~gross/7120.html

# **Additional References**

## Article:

• Dyson-Missed Opportunities

http://www.math.uh.edu/~tomforde/Articles/Missed-Opportunities-Dyson.pdf

## **Light Reading:**

- Susskind-The Theoretical Minimum: What You Need to Know to Start Doing Physics
- Susskind-Quantum Mechanics: The Theoretical Minimum

Videos: http://theoreticalminimum.com/

#### **General Physics:**

• Feynman-The Feynman Lectures on Physics

#### **Classical Mechanics:**

- Spivak-Physics for Mathematicians: Mechanics I
- Goldstein-Classical Mechanics

#### **Electromagnetism:**

• Griffiths-Introduction to Electrodynamics

#### **Quantum Mechanics:**

- Hall-Quantum Theory for Mathematicians
- Strocchi-An Introduction to the Structure of Quantum Mechanics ( $C^*$ -Algebra Formalism)
- Dimock-Quantum Mechanics and Quantum Field Theory

#### **Quantum Field Theory:**

• Folland-Quantum Field Theory: A Tourist Guide for Mathematicians

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