

## Physics 6H

## Topics and Readings

### Special Relativity

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| 1 | <ul style="list-style-type: none"><li>• Moore - Chapter 1</li><li>• Moore - Chapter 2</li></ul>                             | <ul style="list-style-type: none"><li>• Boccio - Relativity 1 - P6</li></ul>   |
| 2 | <ul style="list-style-type: none"><li>• Moore - Chapter 3</li><li>• Moore - Chapter 4</li><li>• Moore - Chapter 5</li></ul> | <ul style="list-style-type: none"><li>• Boccio - Relativity 2 - P6</li><li>• Boccio - Relativity 3 - P6</li></ul>                                      |
| 3 | <ul style="list-style-type: none"><li>• Moore - Chapter 6</li><li>• Moore - Chapter 7</li></ul>                             | <ul style="list-style-type: none"><li>• Boccio - Relativity 3 - P6</li><li>• Boccio - Relativity 4 - P6</li><li>• Boccio - Relativity 5 - P6</li></ul> |
| 4 | <ul style="list-style-type: none"><li>• Moore - Chapter 8</li><li>• Moore - Chapter 9</li></ul>                             | <ul style="list-style-type: none"><li>• Boccio - Relativity 5 - P6</li><li>• Boccio - Relativity 6 - P6</li></ul>                                      |
| 5 | <ul style="list-style-type: none"><li>• Moore - Chapter 10</li><li>• Moore - Chapter 11</li></ul>                           | <ul style="list-style-type: none"><li>• Boccio - Relativity 6 - P6</li><li>• Boccio - Relativity 7 - P6</li></ul>                                      |

### Quantum Mechanics

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| 6  |   | <ul style="list-style-type: none"><li>• Boccio Classical Breakdown</li><li>• Boccio Quantum Thoughts</li><li>• Boccio Mathematics</li><li>• Boccio Calculus and ODE Notes</li></ul>   |
| 7  | <ul style="list-style-type: none"><li>• Albert - Chapter 1-2</li></ul>  | <ul style="list-style-type: none"><li>• Boccio Superposition A</li><li>• Boccio Mathematics</li></ul>   |
| 8  | <ul style="list-style-type: none"><li>• Albert - Chapter 1-2</li></ul>  | <ul style="list-style-type: none"><li>• Boccio Postulates</li><li>• Boccio Quantum Details</li><li>• Boccio Superposition B</li></ul>   |
| 9  |   | <ul style="list-style-type: none"><li>• Boccio Schrodinger Equation</li><li>• Boccio Simple Quantum Systems</li><li>• Boccio Uncertainty Principle</li></ul>  |
| 10 |   | <ul style="list-style-type: none"><li>• Boccio Polarization</li><li>• Boccio Polaroids, SGs and Slits</li><li>• Boccio Photons and Bayes</li><li>• Experiment #4</li></ul>  |
| 11 | <ul style="list-style-type: none"><li>• Albert - Chapter 3</li></ul>    | <ul style="list-style-type: none"><li>• Boccio K Mesons</li><li>• Boccio Locality, EPR, Bell Intro</li><li>• Boccio Bell Theorem Intro</li></ul>  |
| 12 | <ul style="list-style-type: none"><li>• Albert - Chapter 4-5</li></ul>  | <ul style="list-style-type: none"><li>• Boccio EPR and Bell Details</li><li>• Boccio More EPR</li><li>• Boccio Whither the Collapse?</li></ul>  |
| 13 | <ul style="list-style-type: none"><li>• Albert - Chapters 6-8</li></ul> | <ul style="list-style-type: none"><li>• Boccio Cats and Friends</li><li>• Boccio Quantum Erasers</li><li>• Boccio Watched Pots</li><li>• Boccio Many Worlds</li><li>• Boccio Decoherence</li><li>• Boccio Infinite Regression</li><li>• Boccio Measurement</li><li>• Boccio Computing and Teleportation</li></ul> |