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THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYS 441: QUANTUM MECHANICS

LECTURE 10: THE HARMONIC OSCILLATOR

1. Introduction to the harmonic oscillator potential.

2. The Schrödinger equation for the harmonic oscillator.

3. The ladder operator method.

4. The energy spectrum of the harmonic oscillator.

5. The wavefunctions of the harmonic oscillator.

6. The uncertainty principle for the harmonic oscillator.

7. The correspondence principle.

8. Summary and conclusions.







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1. *Introduction*

2. *Methodology*



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