

# Problem Set 9 Latex Report

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## 1 Problem 1 part b

Initial position and time evolution of the wave function are seen in Figures 1 and 2 respectively.

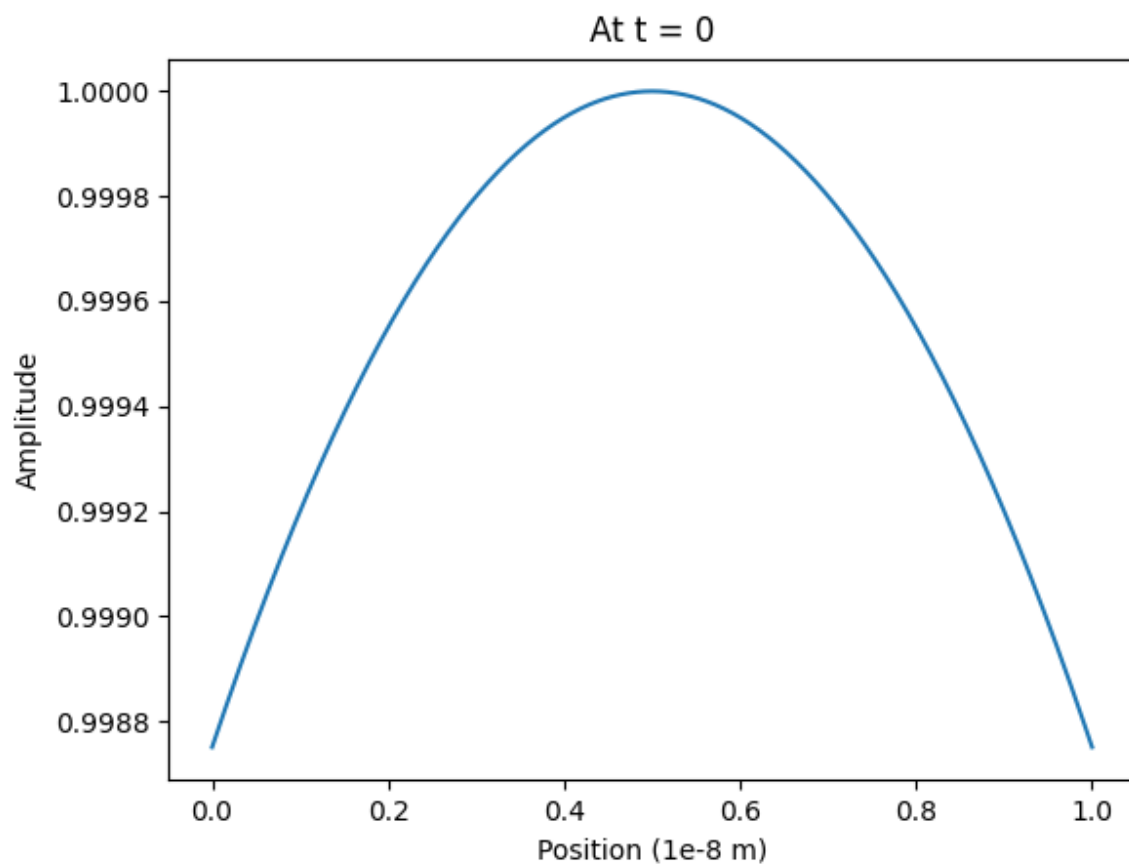


Figure 1: Initial position of the wave function

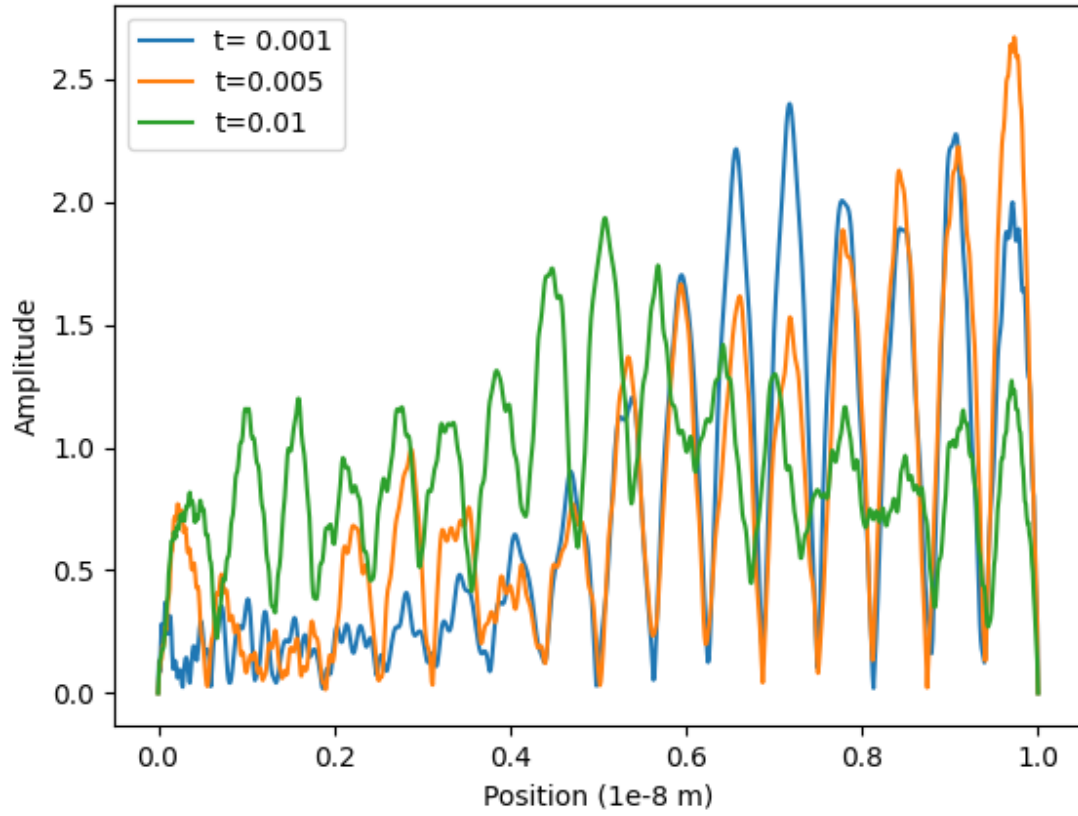


Figure 2: Spectrum for Trumpet

## 2 Problem 1 Part c

We can observe in Figure 1 that the wave function has a higher amplitude in the center. After the wave function interacts with the boundary, its amplitude gets spread out more around the box, making the position of the particle more uncertain.