PH3205-Computational Physics

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Additional Task 2

Aim

Animate the spiral path of an object

Solution

I animated the following spiral path:

$$\begin{aligned} x &= a(t) \times \cos(\omega t) \\ y &= a(t) \times \sin(\omega t) \\ z &= v \times t \\ \text{where, } a(t) &= v_r \times t \end{aligned}$$

I followed the standard procedure for animating a given path in Python, and the code is described in the python file: *Spiral.py*. The animated file is saved with the name : *spiral.gif*

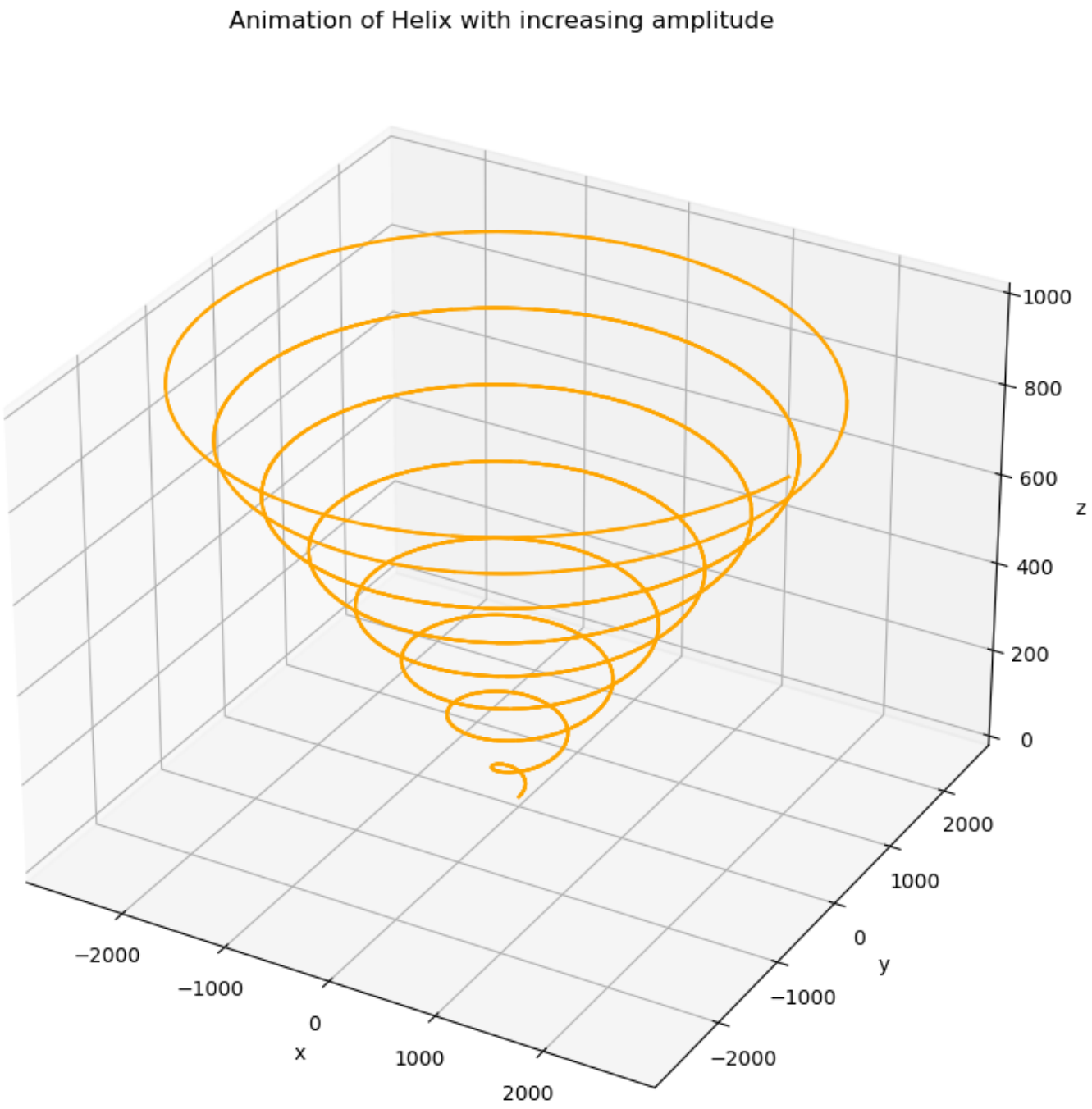

Figure 1: End result of the animation