Report for fallingSoliton

Simulated with: /home/mparcerisa/Desktop/code/TFG/BEC-Simulations/lib/managers/crankNicolson/default.py

Simulation constants:

N: 1400 U0: -0.000 a0: 0.000

a0_over_healingLength: 0.000 baseDensity: 10000.000 bohrRadius: 0.000

dispersionLength: -0.000 dispersionLength_over_bohr: d23.30000

dx: 0.200 g: -0.000 hbar: 0.000

healingLength: 1.518 mass: 0.000 plotFPS: 1000.000

plotPause: 0.001 plotStep: 10 plotYMax: 2

plotYMin: -2 potentialW: 0.394 psi0: 100.000

r: 2.500 tCount: 200 tMax: 20

tMin: 0 velocity: 0.000 x0: 7.000

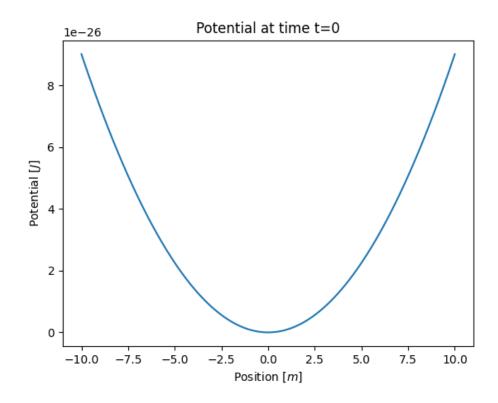
Wave function:

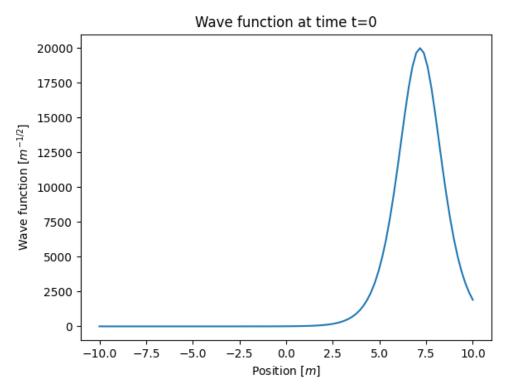
Potential function:

```
def V(x, t, constants): """ The potential energy function. """ #

The width of the harmonic oscillator potential. w = constants["potentialW"]

# The mass of the particle. m = constants["mass"] # The potential energy at the given position and time. return m * w**2 * x**2 / 2
```





Results

