## Report for stillBrightSoliton

Simulated with: lib.managers.crankNicolson.default

#### Simulation constants:

baseDensity: 1 chemicalPotential: 1 dt: 0.005

dx: 0.200 g: -1 hbar: 1

healingLength: 0.707 mass: 1 plotFPS: 1000.000

plotPause: 0.001 plotStep: 10 plotYMax: 2

plotYMin: -2 r: 0.125 tCount: 1000

tMax: 5 tMin: 0 velocity: 0

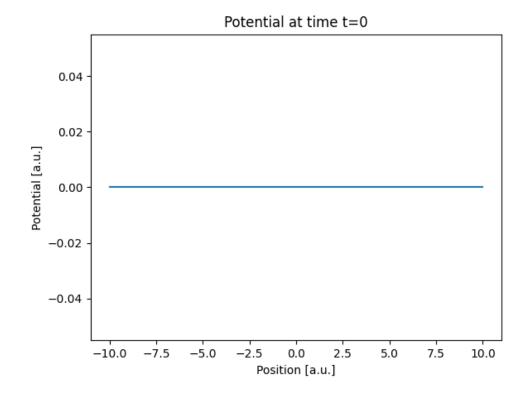
xMin: -10

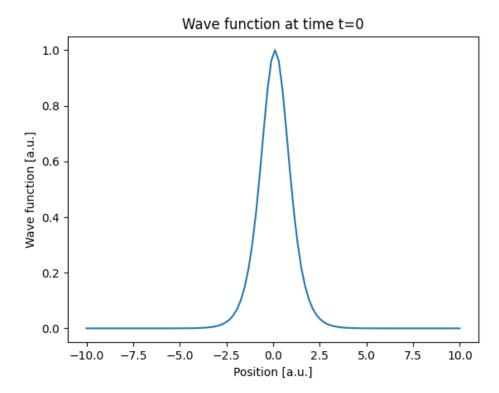
#### Wave function:

def waveFunction(x, t): return eta \* jnp.exp(1j \* kappa \* x - 1j \* omega \* t) / jnp.cosh(eta \* (x - v \* t))

### Potential function:

def V(x, t): return jnp.zeros\_like(x)





# Results

