Report for fixedOnTopUnbreaking

Simulated with: lib.managers.crankNicolson.dimensionless

Simulation constants:

baseDensity: 1.000 chemicalPotential: 10.000 dt: 0.005

dx: 0.200 g: -10.000 hbar: 1.000

healingLength: 0.224 mass: 1.000 plotFPS: 1000.000

plotPause: 0.001 plotStep: 10 plotYMax: 2

plotYMin: -2 r: 0.125 tCount: 1000

tMax: 5 tMin: 0 velocity: 0.000

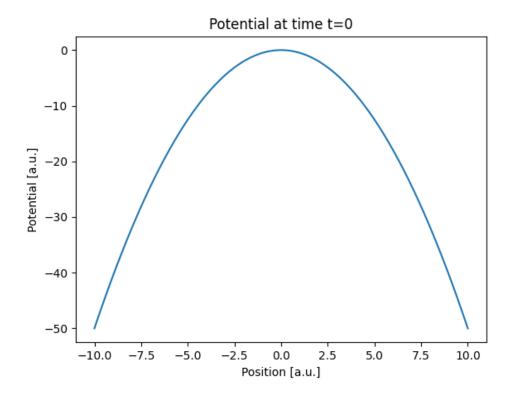
xMin: -10

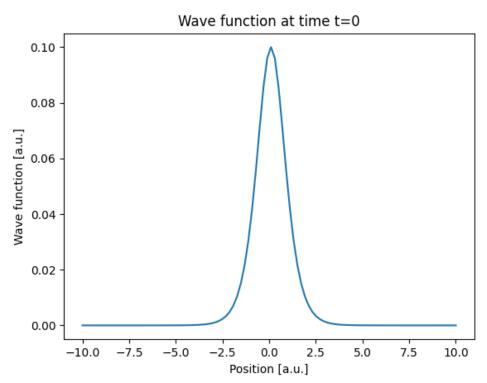
Wave function:

```
def brightSoliton(x, t, constants): v = constants["velocity"] g = constants["g"] x0 = constants["x0"] eta = jnp.sqrt((v**2 + 2) / (-2 * g)) kappa = jnp.sqrt(2 / (v**2 + 2)) spacePart = eta / jnp.cosh(((x - x0) - v * t) / kappa) * jnp.exp(1j * (x - x0) * v) timePart = jnp.exp(1j * (1 / 2 - v**2 / 4) * t) return spacePart * timePart
```

Potential function:

```
def V(x, t, constants): return -1 / 2 * x**2
```





Results

