Report for fixedOnTop

Simulated with: lib.managers.crankNicolson.dimensionless

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

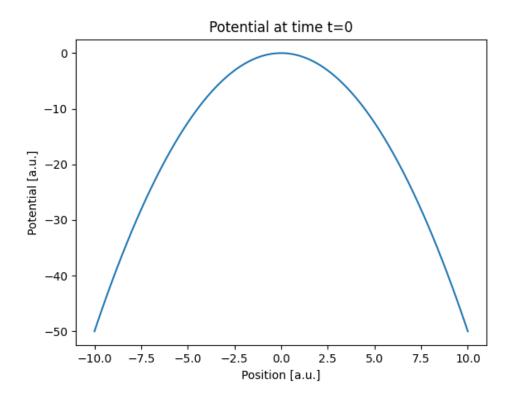
xMin: -10

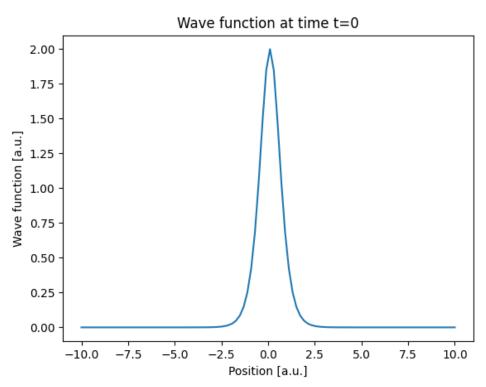
Wave function:

```
def waveFunction(x, t, constants): eta = 1 / constants["healingLength"] 
kappal = 0 omegal = (kappa1**2 + eta**2) / 2 v1 = kappal x1 = 0 
wf1 = eta * jnp.exp(1j * kappal * (x - x1) - 1j * omegal * t) / jnp.cosh(eta * ((x - x1) - v1 * t)) return wf1
```

Potential function:

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





Results

