Report for stillBrightSoliton

Simulated with: lib.managers.crankNicolson.default

Simulation constants:
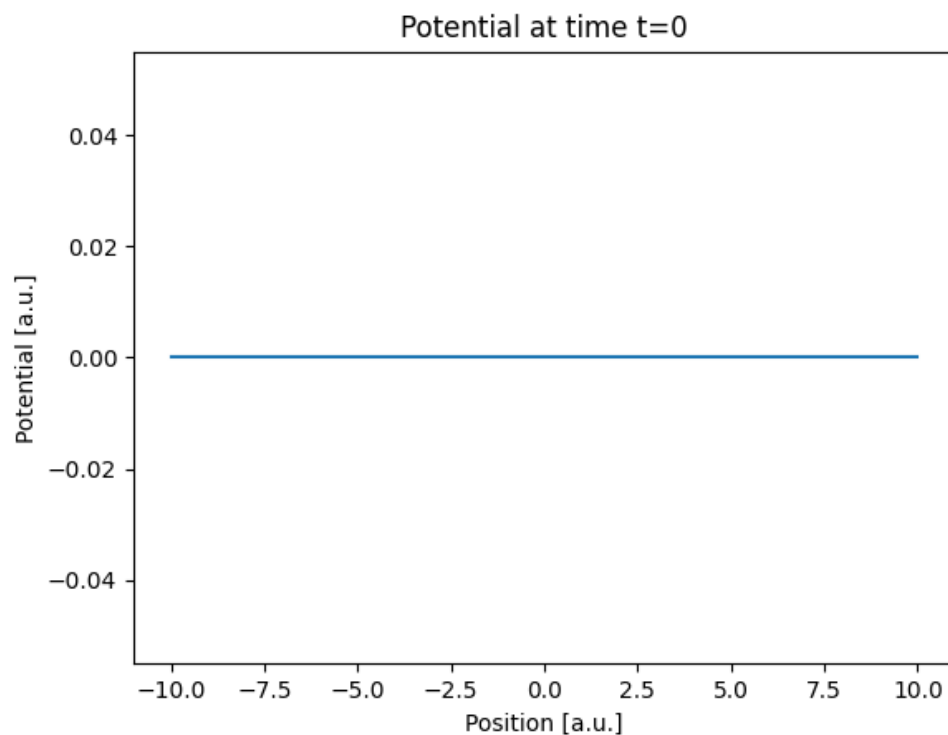
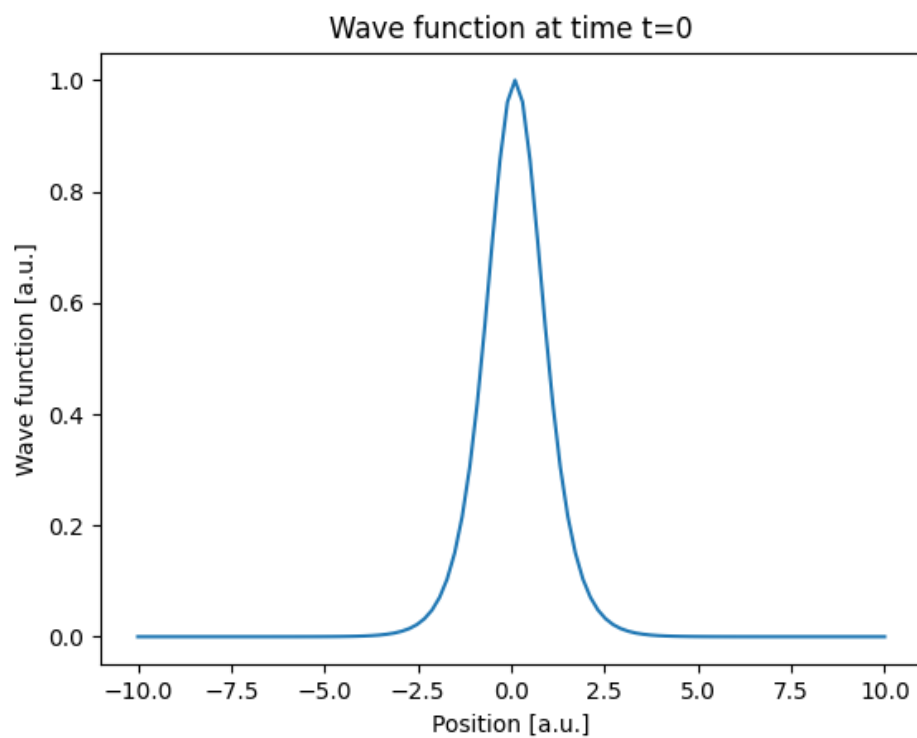|		
baseDensity: 1	chemicalPotential: 1	dt: 0.005
dx: 0.200	g: -1	hbar: 1
healingLength: 0.707	mass: 1	plotFPS: 1000.000
plotPause: 0.001	plotStep: 10	plotYMax: 2
plotYMin: -2	r: 0.125	tCount: 1000
tMax: 5	tMin: 0	velocity: 0
x0: 0	xCount: 100	xMax: 10
xMin: -10		

Wave function:

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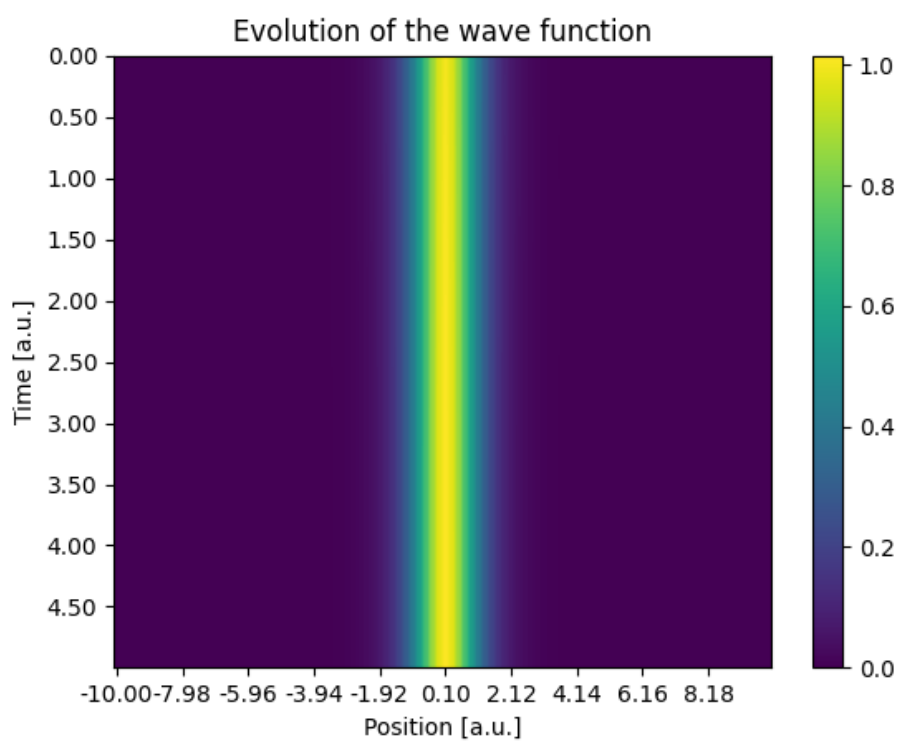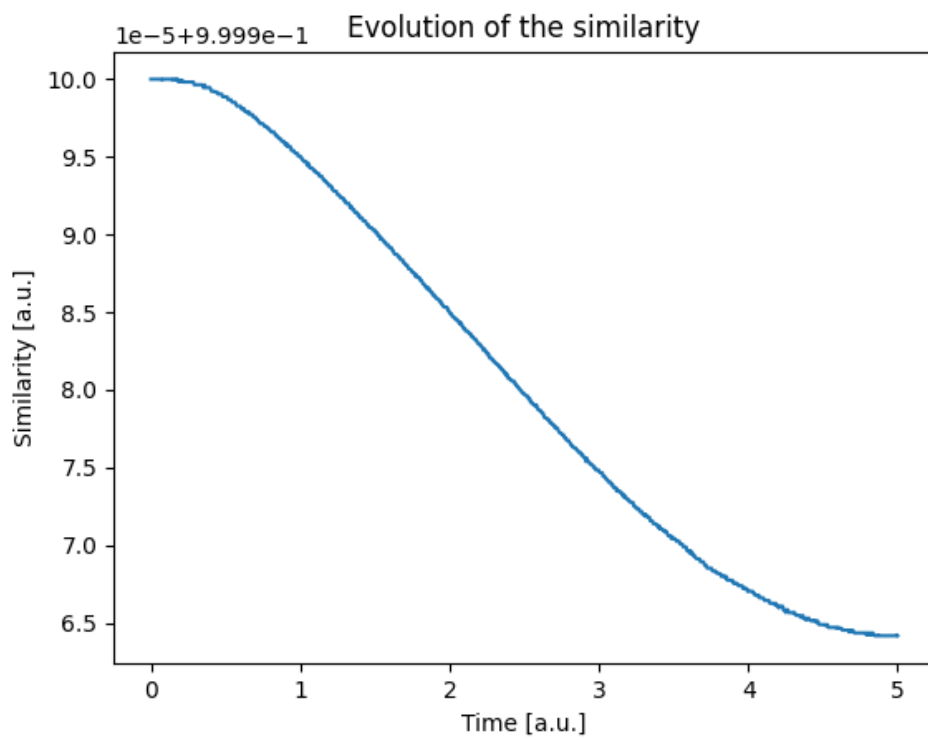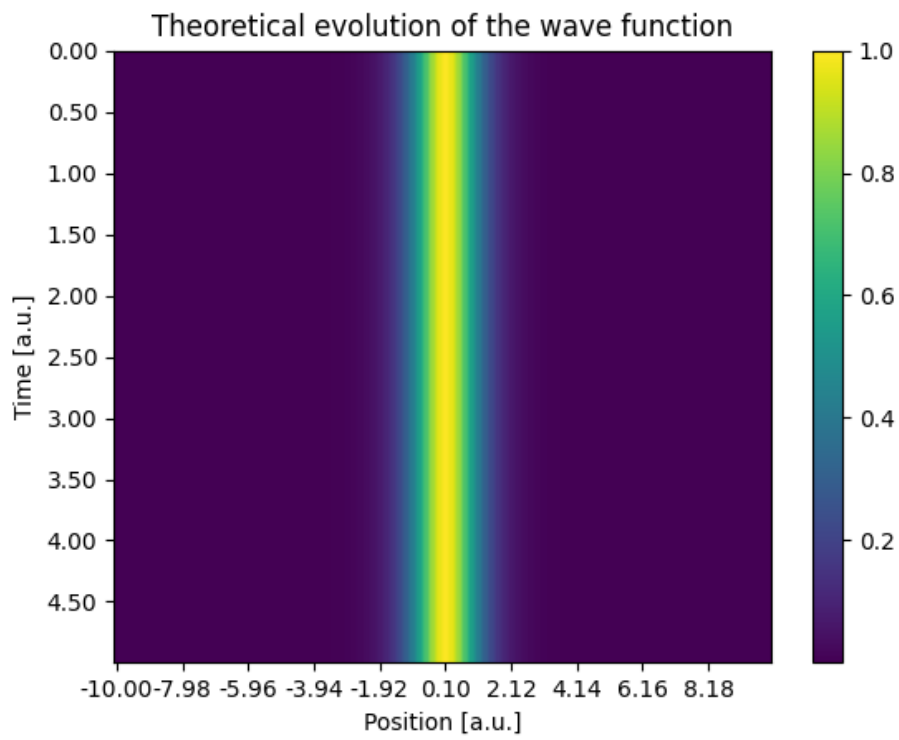
Potential function:

```
def V(x, t):    return jnp.zeros_like(x)
```
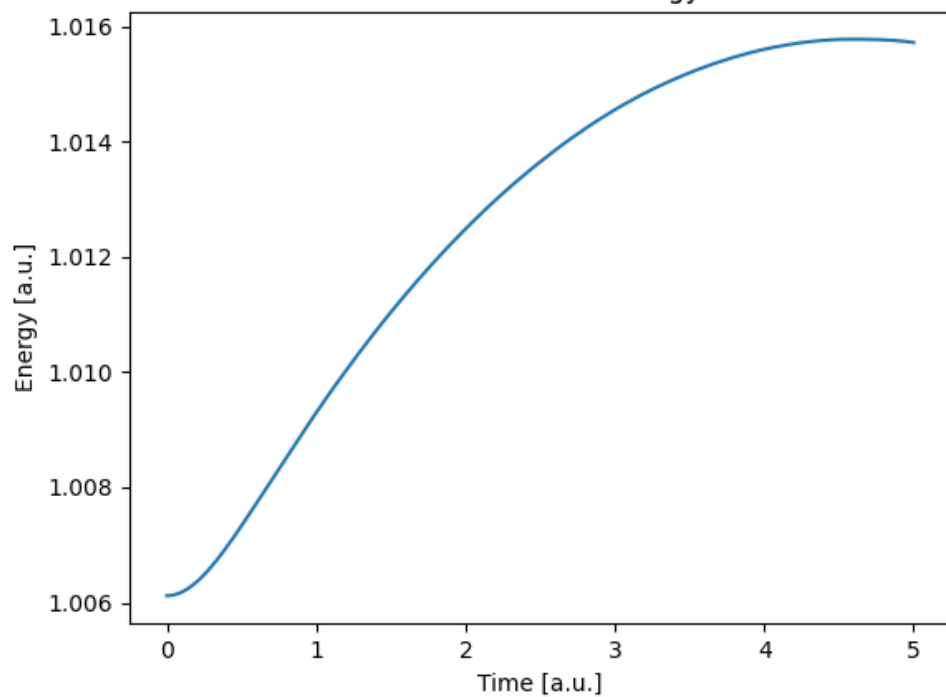
Wave function at time t=0

Results

Evolution of the wave function

Theoretical evolution of the wave function

Evolution of the similarity

Evolution of the energy

Evolution of the norm