

# QwaveMPS

## Initial parameters:

Choose an initial state and symmetrical/chiral coupling:

**states.py**

Choose the Hamiltonian:

**hamiltonians.py**

Simulation parameters:

**time step**

**max. time**

**time list**

**max. bond dimension**

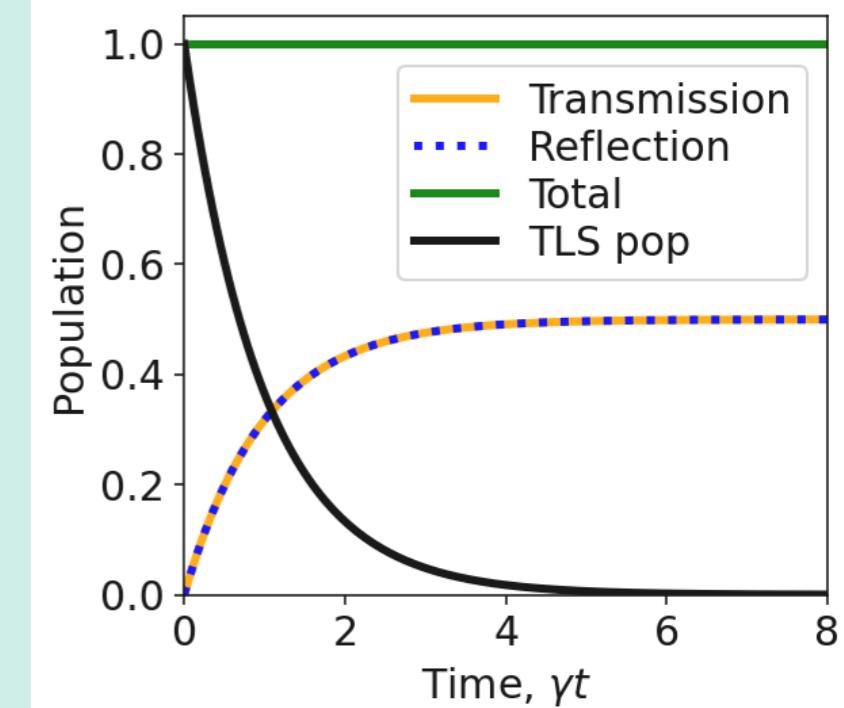
**operators.py**

(Implicitly used in simulation)

## Output parameters:

Example observables:

- **TLS Population**
- **Photon transmission**
- **Photon reflection**
- **Quanta conservation**



## Main simulation:

**simulation.py**

**Time evolution  
(Markovian or  
non-Markovian):**

**t\_evol\_M**

**t\_evol\_NM**

**Population dynamics:**

**pop\_dynamics\_1TLS**

**pop\_dynamics\_2TLS**

**...**