**Benchmarks (solid effect)**

**Calculating 1E6 matrix products:**

Matlab (s): 2.50, 2.51

Python + NumPy (s): 3.94, 3.90

*These speeds are concerning. Perhaps there is an issue with Python libraries? Test on Laptop with Anaconda also, consider BLAS linking. Post on Stackoverflow also if this is still an issue.*

**Calculating 1E5 Kronecker products:**

Matlab (s): 4.18

Python + NumPy (s): 7.33, 7.34, 7.41

**Calculating 1E4 matrix exponentials:**

Matlab (s): 2.02

Python + NumPy (s): 6.77, 6.70, 6.73

**Calculating Hamiltonian:**

Matlab (s): 0.037593

Python + NumPy (s): 0.892, 0.885, 0.887

Python + F2PY (s): 0.070, 0.070, 0.070

Python + F2PY + OpenMP (s): 0.023, 0.025, 0.022

**Calculating Liouville space propagator:**

Matlab (s):

Python + NumPy (s): 16.3, 16.6, 16.4

**Calculating sub rotor polarisation:**