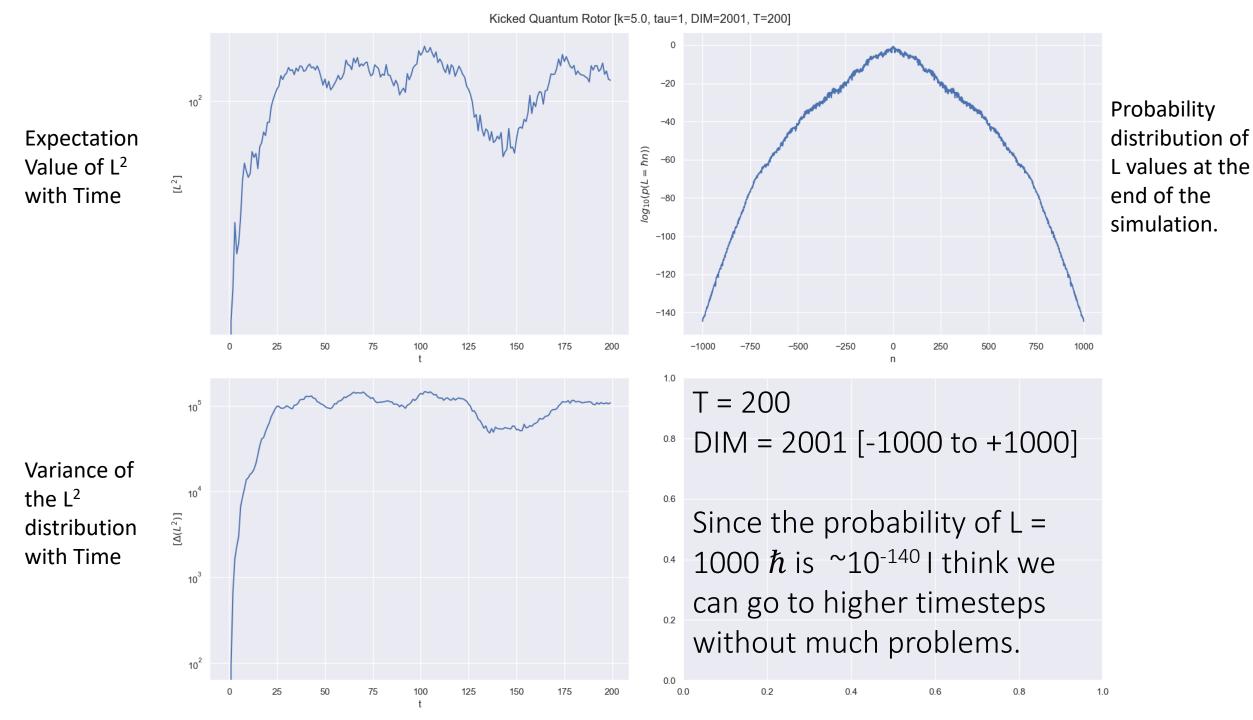
## Localization in Quantum Kicked Rotor

Aditya Chincholi



700

0.6

0.8

1.0

0.2

0.0

0.4

0.6

0.8

1.0

## Naïve Energy Balance

$$Tk = \frac{1}{2}\hbar^{2}L_{max}^{2}$$

$$T \le \frac{\hbar^{2}L_{max}^{2}}{2k}$$
[If we take  $\hbar = 1, L_{max} = 1000, k = 5$ ]
$$T \le 10^{5}$$
(10)

which undoubtedly seems like an overestimate.