

AN ANALOGY OF FOKKER-PLANCK APPROXIMATION METHODS

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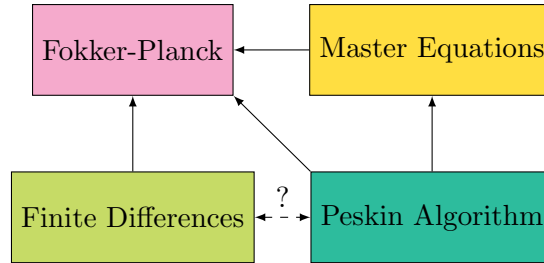


FIGURE 1. Approximation methods and their relationships to the Fokker-Planck equation.

The probability density $\rho(x, t)$ evolves according to the Fokker-Planck equation

$$\partial_t \rho(x, t) = \partial_x (\rho(x, t) \partial_x \phi(x) + \partial_x \rho(x, t)) \quad (1)$$

where $\phi(x)$ is the potential energy. δ