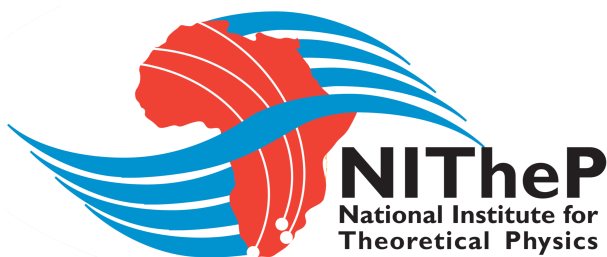


# Random vectors with a matrix representation: a framework for out-of-equilibrium systems

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# Out-of-equilibrium statistical physics

## At equilibrium:

- Microcanonical ensemble:  $p(x_1, \dots, x_n) = \text{cst}$
- Canonical ensemble:  $p(x_1, \dots, x_n) = e^{-\beta \mathcal{H}(x_1, \dots, x_n)}$

## Out-of-equilibrium:

- Constant flow of heat or particles
- Dynamic description
- Correlation
- Stationary distribution?