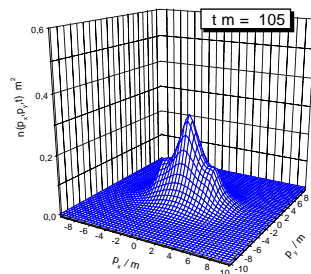
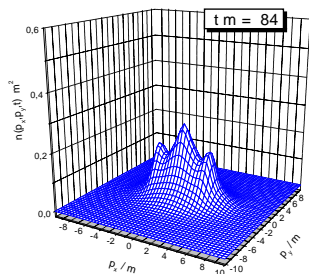
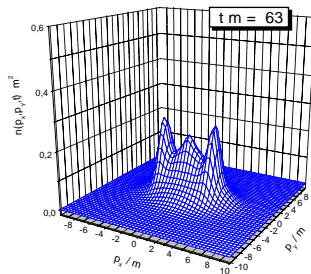
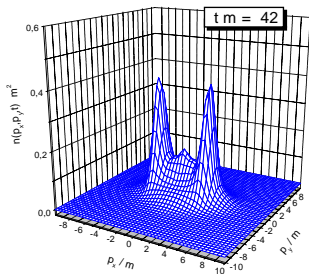
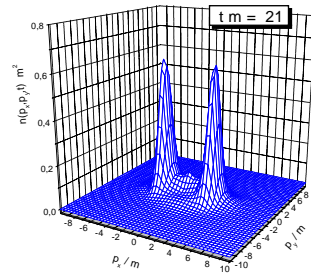
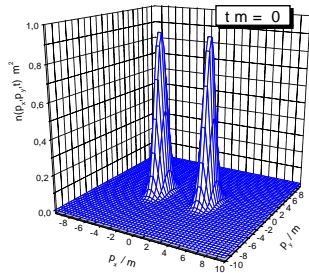


► Equilibration in bosonic QFT from first principles

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- ϕ^4 -theory

$$\mathcal{L} = \frac{1}{2} \partial_\mu \phi \partial^\mu \phi - \frac{1}{2} m^2 \phi^2 - \frac{\lambda}{4!} \phi^4$$

- Kadanoff-Baym equation

$$D \otimes G = \text{[Diagram 1]} + \text{[Diagram 2]}$$

The diagram shows the Dyson equation for the propagator. On the left is the product of the Dyson equation $D \otimes G$. On the right are two diagrams: the first is a self-energy loop diagram (a circle with a dot on the left and a line extending to the right), and the second is a tadpole diagram (a circle with a line passing through its center).

- 2+1 dimensional realization