Seminar: Theoretical Statistical Physics, SS 2014

## Subjects:

- 1) Functional integral for  $\phi^4$ -theory
- 2) Divergences in perturbation theory and renormalization
- 3) Functional renormalization: flow equations for effective action
- 4) Universal critical behavior
- 5) Quantum Statistics and quantum field theory in thermal equilibrium

Further subjects will be added if needed.