Topics

- \bullet path integral for finite T
- perturbation theory
- \bullet high-T expansion
- infrared divergences and resummation
- scalar, fermion and gauge fields
- QED corrections to ideal gas
- polarization tensor
- effective 3-dimensional theories
- phase transitions
- real-time correlation functions
- thermal particle production
- hard thermal loops and kinetic equations
- non-perturbative magnetic-scale physics