Tricky aspects of thermal phase transitions

Maria Daghöfer

Institut für Funktionelle Materie und Quantentechnologien, Universität Stuttgart, Germany

In the second lecture, we will go over some more advanced aspects related in particular to symmetry-breaking phase transitions. For instance, we will discuss where mean-field theory can be trusted and will investigate typical excitations like Goldstone modes. A few more advanced examples like superconductivity will be presented.