Conformal Field Theories
Docente Prof. Nicodemo Magnoli

1. Conformal field theories
   - Conformal field theories in *D* dimensions
   - Conformal field theories in 2 dimensions

2. The Ising model
   - The Ising Hamiltonian
   - The Ising model as a conformal field theory
   - The Ising model in 2 dimensions
   - Conformal bootstrap and the Ising model in 3 dimensions

3. Conformal perturbation theory
   - Correlation functions
   - Conformal perturbation theory and OPE coefficients
   - Vacuum expectation values
   - The OPE coefficients are infrared finite to all order in the coupling constant
   - A first example: the scalar Gaussian model in 3 dimensions
   - The Ising model in 2 dimensions perturbed by σ
   - The Ising model in 2 dimensions perturbed by ε
   - The Ising model in 3 dimensions perturbed by σ
   - The Ising model in 3 dimensions perturbed by ε