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CBPF

PCP0181 – "FUNCTIONAL INTEGRAL"

(32h/aula – 2 créditos)

MATÉRIA LECIONADA:

In the course we will give an introduction to renormalization group techniques and study several applications from Condensed Matter physics.

Topics:

- 1d Ising model
- ferromagnetic transition
- Kondo problem
- Kosterlitz-Thouless transition
- disordered magnets
- sigma models

Refs.:

- A. Altland and B. Simons, "Condensed Matter Field Theory"
- E. Fradkin, "Field Theories of Condensed Matter Physics"
- S. Sachdev, "Quantum Phase Transitions"