UNIVERSITÀ DI PARMA

DIPARTIMENTO DI SCIENZE MATEMATICHE, FISICHE E INFORMATICHE

http://smfi.unipr.it

SEMINARIO

Dr. Anshu Kataria, SMFI

Wednesday 4 dicembre 2024 at 17:00

Aula D, Plesso di Chimica

μSR study of Re-based distorted Kagome superconductors.

Abstract *Frustrated lattices, such as kagome structures, host unique quantum states, including spin liquids and unconventional superconductivity. Geometric frustration and Fermi surface nesting drive diverse SC pairing symmetries, such as d-wave and s+−. This seminar highlights Re-based distorted kagome systems, Re_2Hf and Re_2Zr, where frustration stabilises novel superconducting states. I will present detailed experimental observations of these* sAbstract *Frustrated lattices, such as kagome structures, host unique quantum states, including spin liquids and unconventional superconductivity. Geometric frustration and Fermi surface nesting drive diverse SC pairing symmetries, such as d-wave and s+−. This seminar highlights Re-based distorted kagome systems, Re_2Hf and Re_2Zr, where frustration stabilises novel superconducting states. I will present detailed experimental observations of these systems using microscopic techniques, including muon-spin spectroscopy.*

Organizzatore: prof. Roberto De Renzi