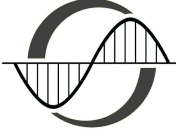




UNIVERSITÀ
degli STUDI
di CATANIA



DIPARTIMENTO DI FISICA E ASTRONOMIA
“ETTORE MAJORANA”

DOTTORATO DI RICERCA IN FISICA
CICLO XL A.A. 2024/2025

Exactly solvable one dimensional quantum many particle systems

2 CFU

Teaching staff

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Program of the course: *Integrability and exact solution of the Heisenberg chain. Integrability of the bosonic quantum field theory in one spatial dimension through the Quantum Inverse Scattering technique. Lattice corrections of integrable bosonic quantum field theories.*

Bibliography:

[1] A. G. Izergin, N. M. Bogoliubov, and Vladimir Korepin, Quantum Inverse Scattering Method and Correlation Functions, (Cambridge University Press 1993).

[2] Course notes.