

FDITE22 Integrable systems 2

lecturer: László Fehér

Topics:

Methods of construction and solution for soliton equations. The essence of the algebraic Bethe ansatz as illustrated by examples. Elements of the theory of quantum groups and their applications.

Recommended literature:

- Korepin V.E., Bogoliubov N.M., Izergin A.G.: Quantum Inverse Scattering Method and Correlation Functions, Cambridge University Press 1993.
- Chari V., Pressley A.: A Guide to Quantum Groups, Cambridge University Press 1994.
- Faddeev L.D., Takhtajan L.A.: Hamiltonian Methods in the Theory of Solitons, Springer-Verlag 1987.
- Drazin P.G., Johnson R.S.: Solitons: an introduction, Cambridge University Press 1989.