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Herbert SPOHN - Hydrodynamic scale of integrable many-particle systems

Thursday, June 1, 2023 12:15 PM (45 minutes)

Integrable many-particle systems arise in wide variety. To illustrate their generalized hydrodynamics, the Calogero fluid will be used as prime example. The fluid consists of classical particles moving on the line and interacting through the repulsive $1/\sinh^2$ pair potential. Discussed are generalized Gibbs ensembles, the corresponding random Lax matrix, its density of states, and GGE averaged currents.

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