

How to Solve the Stochastic Six Vertex Model

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Introduction

These are lecture notes for **PANEM-2023** at Texas A&M on the integrability and asymptotics of the stochastic six vertex model.

Part I

Six vertex model through different lenses

- 1 Gibbs measures and the six vertex model
- 2 Stochastic six vertex model and its particle system limits
- 3 Gibbs properties of the stochastic six vertex model
- 4 Basic coupling and colored (multispecies) models
- 5 Stationary distributions and hydrodynamics
- 6 Limit shape and fluctuation problem

Part II

Integrability

Part III

Asymptotics

References

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