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## Limiting distributions of Spherical and Spin $O(N)$ models: Appearance of GFF

*Wednesday 24 January 2024 11:35 (30 minutes)*

Spherical model is a mathematical model of a ferromagnet introduced by Berlin and Kac in 1952 as a rough but analytically convenient modification of the Ising model. Since its inception it has enjoyed considerable popularity among the mathematicians and physicists as an exactly soluble model exhibiting a phase transition. In this talk we will explain its relation to the Gaussian free field in the infinite volume limit and to the spin  $O(N)$  model in the infinite spin dimensionality limit.

**Presenter:** KORZHENKOVA, Aleksandra