Physics Seminar: Sergei Lukyanov

Wednesday, November 29⋅2:00 – 3:00pm
Location: 313

Title: On the scaling behaviour of an integrable spin chain with Z_r symmetry

Abstract: The inhomogeneous six-vertex model is a 2D multiparametric integrable statistical system. In the scaling limit it is expected to cover different classes of critical behaviour which, for the most part, remain unexplored. The main subject of the talk is a certain critical quantum spin 1/2 chain associated with the inhomogeneous six-vertex model with an additional Z_r symmetry. The CFT underlying its critical behaviour possesses remarkable features. Among them is an infinite degeneracy of the conformal primary states and the presence of a continuous component in the spectrum in the case of even r. The talk is based on the work arXiv:2305.03620.