

Séminaire de physique mathématique

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Orme des Merisiers Salle Claude Itzykson, Bât. 774

Boundary RG flow in the alternating XXZ spin chain

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In this talk I will consider a particular statistical model at criticality known as the Staggered Six Vertex model when formulated as a 2 dimensional classical statistical model and as the Alternating XXZ spin chain when formulated as a 1+1 dimensional quantum model. The most striking feature of this model is that it is described, in the continuum limit, by a non-compact conformal field theory, resulting in a continuum of critical exponents. I will present an exact solution of the model with open boundaries and show how the results on the lattice illustrate an RG flow from a non-compact boundary conformal field theory to a compact one.
