Two dimensional QCD revisited again

Nicolai Reshetikhin

YMSC Tsinghua University

In the first part of the talk quantum N-point spin Calogero-Moser (CM) systems will be introduced. In the second part I will show that the partition function for the 2D Yang-Mills model on a surface with corners is a solution to quantum CM evolution with special initial conditions. The relation of these topics to quantum Chern-Simons theory, invariants of 3-manifolds and quantization of moduli spaces will be outlined in the third part of the talk.