# SEMPARIS – Séminaires en région parisienne

http ://string.lpthe.jussieu.fr/semparis/

## Strings, integrability and beyond

**Jeudi 25 Avril 2019, 11 :30**
IPHT, Salle Itzyckson
Domaines : hep-th

Titre : *Separated variables and wave functions for rational GL(N) spin chains*

Orateur : **Dmytro Volin ( Nordita Stockholm & Uppsala U. )**

Résumé : *We present a basis in which wave functions of integrable XXX spin chain factorise into a product of Slater determinants of Baxter Q-functions. We furthermore show that this basis is formed by eigenvectors of the B[good]-operator and it is naturally labelled by Gelfand-Tsetlin patterns. The discussion is valid for spin chains in any rectangular representation and arbitrary rank of the GL(N) symmetry group. For symmetric powers of the defining representation, one also observes a corollary that B[good]-operator acting on a suitably chosen vacuum constructs the eigenstates of the Bethe algebra.*