

SEMPARIS – Séminaires en région parisienne

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

Journal Club

Vendredi 12 Octobre 2018, 11 :30

IPHT, Pièce 026, Bât. 774

Domaines : physics

Titre : *G-function from graph theory*

Orateur : **Dinh-Long Vu** (IPhT Saclay)

Résumé : *“Integrability meeting ENS/IPhT”*

We propose a new method for computing the boundary free energy of an integrable 1 1 dimensional quantum system. We apply the matrix-tree theorem to write the integration measure in the cluster expansion of the partition function as a sum over trees and loops. The sum over trees satisfies the Thermodynamic Bethe Ansatz equation while the sum over loops gives rise to two Fredholm determinants.

Based on recent work <https://arxiv.org/pdf/1809.05705.pdf>

(IPhT organizers : Ivan Kostov and Didina Serban)
