Laboratoire de Physique Théorique et Hautes Energies

Unité Mixte de Recherche (UMR 7589) de Sorbonne Université et du CNRS

SEMINAIRE du LPTHE

Vendredi 13 Septembre 2019, 11:00

Sylvain Lacroix

DESY Hambourg

Integrable coupled sigma-models from affine Gaudin models

In this seminar, I will discuss integrable systems called affine Gaudin models and their application to the study of integrable sigma models. As an introductory example, I will first discuss a simpler class of Gaudin models, the finite ones, and their relation with integrable spin chains and mechanical systems. I will then explain how to use affine Gaudin models to construct new integrable classical sigma models, by coupling together an arbitrary number of principal chiral models with Wess-Zumino terms.

Bibliothèque du LPTHE, tour 13/14, 4ème étage

N.B. La liste de tous les séminaires en région parisienne est disponible sur
http ://semparis.lpthe.jussieu.fr