# SEMPARIS – Séminaires en région parisienne

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

## Strings, integrability and beyond

**Mardi 10 Septembre 2019, 11 :00**
LPTENS, Scherk library
Domaines : hep-th

Titre : *Integrable coupled sigma-models from affine Gaudin models*

Orateur : **Sylvain Lacroix ( Hamburg University )**

Résumé : *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.*