

# Séminaire des doctorants du LPTHE

**Thursday, April 18<sup>th</sup>, 2:30pm**  
Library of LPTHE

The ODE/IM correspondence: an introduction

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In this talk I will introduce the recently discovered ODE/IM correspondence in a non-technical fashion. After having shown a first simple example of this correspondence, I will review some basic facts about integrability for 2D field theories. I shall then come to the case of Bullough-Dodd model and sketch how this correspondence lead to a surprising relation between classical and quantum objects. Finally, if time will allow me, I'll show how the ODE/IM correspondence is related to the computations of one point functions of descendents in Sin(h)-Gordon model.

This talk will require no previous knowledge of Integrable Field Theory, nor of Conformal Field Theory.