



Du
04
NOV.
2022

16h30
-
18h00

ÉQUATIONS DIFFÉRENTIELLES MOTIVIQUES ET AU-DELÀ

Spectral data for higher direct images of parabolic Higgs bundles

IHP
11, rue Pierre et Marie Curie

INSCRIPTION

Mochizuki's Kobayashi-Hitchin correspondence allows us to represent local systems on quasiprojective varieties by parabolic logarithmic Higgs bundles. The Sabbah-Mochizuki theory generalizing Saito's mixed Hodge modules then provides a framework for the 6-functor

formalism on these objects. However, this setup involves working with λ -connections for

all values of λ . In our work with Donagi and Pantev, we made explicit the formula for the higher direct image, looking solely at the Dolbeault fiber ($\lambda = 0$) of Higgs bundles. In generic cases this yields a nice formula for the spectral variety of the higher direct image Higgs bundle. We'll then look at how this applies to the question of calculating Hecke correspondences in the Donagi-Pantev program for constructing

Hecke eigensheaves in geometric Langlands.

URL of the page: <https://www.ihp.fr/fr/agenda/spectral-data-higher-direct-images-parabolic-higgs-bundles>



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HORAIRES

L'institut :

- lundi au vendredi de 8h30 à 18h,
- fermé les jours fériés.

Le musée - Maison Poincaré :

- lundi, mardi, jeudi et vendredi de 9h30 à 17h30,
- samedi de 10h à 18h,
- fermé le mercredi et le dimanche.