



SEMINÁRIO DE D-MÓDULOS E SINGULARIDADES

Dia 22 de Janeiro de 2009 (quinta-feira), às 10 horas, na Sala B1-01

“Examples of classifications of the stack of perverse sheaves”

Delphine Dupont

(Laboratoire J. A. Dieudonne, Université de Nice Sophia-Antipolis)

Abstract

The aim of this talk is to show how the stack theory can be used to glue description of the category \mathcal{Perv}_X of perverse sheaves on a stratified space X .

First at all, I'll recall the equivalence, due to Galligo Granger Maisonobe, between the category $\mathcal{Perv}_{\mathbb{C}^n}$ and a category of quiver's representations.

Then I'll recall the definition of a stack and I'll give a characterization of the 2-category of stack on \mathbb{C}^n .

This is allow me to define a stack on \mathbb{C}^n equivalent to the stack of perverse sheaves on \mathbb{C}^n .

Finally I'll show how this construction can be used to give descriptions of the category \mathcal{Perv}_X , where X is \mathbb{C}^2 stratified by a generic lines arrangement or a smooth toric variety.

Local:

COMPLEXO INTERDISCIPLINAR DA U.L.

Av. Prof. Gama Pinto, 2

1649-003 Lisboa, Portugal

