

Derived categories - perverse sheaves

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Calendario: 10 ore.

Giugno:

3, 4, 5, 10, e 12 dalle 14.30 alle 16.15 in aula 2AB/40

Programma del corso: The aim of this lecture is to give a short introduction to the theory of derived categories. We will consider in particular the derived category of sheaves on a complex analytic manifold and define perverse sheaves.

1. Why derived categories ? Localization of categories. Homotopy category. Derived category.
2. Triangulated structure. Derived functors.
3. Examples. Category of sheaves. Its derived category.
4. Extraordinary inverse image. Verdier duality. Notion of t-structure: D-modules and their “solutions”.
5. Perverse sheaves.

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