SEMINARIO DI MATEMATICA

Lunedì 12 novembre 2018
ore 16:00

Scuola Normale Superiore
Pisa
Aula Bianchi Scienze

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(CNRS)

terrà un seminario dal titolo:

"How to define the symbol of a Fourier Integral Operator?"

Abstract:
In 1971, Hörmander introduced the Fourier Integral Operators associated to homogeneous phase functions, and defined their principal symbol as a section of a line bundle (the Maslov bundle). However, this bundle, abstractly defined via its transition functions, has no concrete meaning and the definition is strictly linked to the homogeneity of the phases. I developed more recently an extended theory of Fourier Integral Operator associated to non necessarily homogeneous canonical transformations. In that context, their symbol appears naturally as sections of a more concrete bundle, made of metaplectic operators. The comparison between the two points of view, in the case of (almost) homogeneous phase functions leads to a new construction of the Maslov bundle and of the symbols of FIO.

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze