

Dovolujeme si pozvat Vás na

1. (obnovené) MATEMATICKÉ KOLOKVIUM

Prof. Pierre Schapira (Paris VI)

ALGEBRAIC MICROLOCAL ANALYSIS

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posluchárna K1

budova MFF UK, Sokolovská 83, Praha 8

Abstract:

To any sheaf F on a real manifold M , one associates its singular support $\text{SS}(F)$, a closed conic co-isotropic subset of the cotangent bundle T^*M , similarly as one associates its characteristic variety $\text{char}(\mathcal{M})$ to a coherent \mathcal{D} -module \mathcal{M} on a complex manifold X .

In this talk, I will explain the notion of microsupport of sheaves (with many examples), describe its functorial properties and give some applications to linear PDE and also, if times allows it, to symplectic topology.

- [1] M. Kashiwara and P. Schapira, *Sheaves on Manifolds*, Grundlehren der Math. Wiss. **292** Springer-Verlag (1990).
- [2] P. Schapira, *Triangulated categories for the analysts*, in "Triangulated categories" London Math. Soc. LNS 375 Cambridge University Press, pp 371-389 (2010)