Pierre SCHAPIRA

Title: From the microlocal theory of sheaves to the Fukaya category

**Abstract**: The microlocal theory of sheaves has been introduced by Masaki Kashiwara and the speaker in the 80's and its main applications at this time were related to linear PDE. This theory is associated to the homogeneous symplectic structure of the cotangent bundle to real manifolds and treat conic co-isotropic submanifolds. Recently, Dmitry Tamarkin, by adapting the tools of this theory to the non conic case, has obtained results of non-displaceability which suggest that the category he constructed is closely related to the Fukaya category.

In this talk we will review these topics and explain some conjectures elaborated jointly with Stéphane Guillermou.