

21COE Special Lecture

Date: September 8 (Thu), 2005, 14:00–
Place: RIMS Room 402
Speaker: Ingo Waschkies (Univ. de Nice)
Title: Microlocal perverse sheaves on smooth
Lagrangian manifolds

Abstract:

Let X be a complex manifold and Λ a smooth conic Lagrangian subvariety of T^*X . It is well known that the stack of regular holonomic microdifferential systems on Λ is equivalent to the stack of local systems twisted by $\Omega_{\Lambda|X}^{\otimes \frac{1}{2}}$. The topological analogue of regular holonomic microdifferential modules are called microlocal perverse sheaves, and these two stacks are equivalent via a microlocal Riemann Hilbert correspondance. In this talk we give a topological proof (that holds over any field) that the stack of microlocal perverse sheaves is equivalent to the stack of twisted local systems. Then we will explain some consequences to the theory of quantized contact transformations in microlocal sheaf theory.

連絡先： 数理解析研究所 柏原正樹