Contributed Talk on September 27, 2024, 10:30 am

Speaker: **Bingyu Zhang, University of Southern Denmark**

Title: Hochschild (co)homology in microlocal geometry

Abstract:

To subsets of a cotangent bundle, we can define stable infinity categories using microlocal theory of sheaves introduced by Kashiwara-Schapira. It is known that those categories play their basic rules in the study of symplectic geometry and geometric representation theory. In this talk, I will talk about the symplectic aspects, and explain ideas regarding on computations and structures of Hochschild (co)homology of those categories. If time permit, I will also explain some relations with string topology and (conjectural) relations with Floer homotopy theory. Part of the talk is based on a joint work with Christopher Kuo and Vivek Shende.