

Large-scale geometry and sheaves

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In this talk, I will describe the large-scale geometric phenomena in symplectic geometry, in particular, from the study of Hofer geometry and star-shaped domains. Moreover, I will briefly recall the primary tool - persistence modules. Then I will demonstrate the Tamarkin category from a quantitative perspective as well as its relation with persistence modules. Finally, I will explain how sheaves in the Tamarkin category can be used to obtain large-scale geometric phenomena.

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