



Mathematics and CS Seminar

GeomTop Seminar: Persistent Microlocal Geometry

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In this talk I will outline a research project which aims to combine ideas from persistent homology and microlocal geometry for applications in stratification learning. Using stratification learning as motivation, we will trace through the historical context of this research with illustrative examples, touching on the theory of intersection homology developed by Goresky--MacPherson and the microlocal sheaf theory of Kashiwara--Schapira. I will conclude with a proposed theory of 'persistent microlocal geometry', and illustrate how this perspective can be used to study singularities in point cloud data.

Thursday, December 5, 2019 01:15pm - 02:45pm

IST Austria Campus Meeting room 2nd floor / Central Bldg. (I01.2OG.)



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: <https://ist.ac.at/en/campus/how-to-get-here/> The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.