Distinguished Lecture Seri

Octav Cornea Université de Montréal

Thursday April 17, 2025

2:30 PM

Live Stream on Zoom

Viewing Party CW 307.20 Math/Stat Lounge

Complexity of Lagrangian submanifolds

Lagrangian submanifolds are a central object of study in symplectic topology. Their rigidity properties have been uncovered via Floer theory since the early '90's. The talk will briefly review the subject, in particular how triangulated category structures naturally arise in this context through work of Donaldson, Kontsevich, Fukaya, and others. Further, will be discussed the more recent, natural role of persistence theory, in the sense common in data science. Finally, we will outline how complexity measurements based on persistence methods reflect topological and dynamical invariants, such as topological entropy.



PIV

Mathematics and Statistics





https://uregina-ca.zoom.us/meeting/register/Tmt2qf5sRS2hMu_70R56FA

Register in Advance for Zoom Link at: