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Institute for Advanced Study

# "What is Symplectic geometry?"

## Monday, February 27, 2023

Talk at 4:00 - Hilles 109 Tea at 3:30 – Foyer outside of Hilles 109

### Abstract:

We will introduce symplectic vector spaces and symplectic manifolds, and discuss examples. Symplectic manifolds are even dimensional manifolds with a symplectic form, which is a nice generalization of an area form. We will then look at my favourite type of submanifold - Lagrangian submanifolds.

Then we will try to understand why symplectic geometry is interesting by discussing some history, and some statements of famous theorems and conjectures like Gromov Non-squeezing

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