



Seminar/Talk

# Weighted loops, coadjoint orbits, and characters

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For the group of area preserving diffeomorphisms we study a class of coadjoint orbits consisting of weighted loops in the plane. They model singular vorticities in ideal 2D fluids supported on closed curves, called vortex loops. We give an Onsager-Feynman condition for the existence of a character associated with a vortex loop. Similar results hold in higher dimensions, for the coadjoint orbits of the group of volume preserving diffeomorphisms consisting of vortex sheets.

**Thursday, September 4, 2025 10:00am - 11:30am**

Mondi Seminar Room 3, Central Building



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

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<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.