

CHAMPP CENTER IN HAMBURG FOR ASTRO-, MATHEMATICAL AND PARTICLE PHYSICS

LECTURE COURSE IN THE QUANTUM UNIVERSE RESEARCH SCHOOL

Winter Term 2024/25

Symplectic Geometry

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Course Description:

The aim of this course is to give an introduction to modern symplectic geometry. We will start from linear symplectic geometry and follow with the discussion of basic properties of symplectic and contact manifolds (and their relation). We then move on to discuss some of the typical questions and the methods which can be used to address them, most notably holomorphic curves.

Prerequisites:

Working knowledge of basic topology and of smooth manifolds. Differential geometry and algebraic topology are also helpful.

Date and Place:

Problem Classes: Starting on: Tue, 14:15–15:45, H6, Geomatikum Wed, 12:15–13:45, H4, Geomatikum Wed, 16:15–17:45, 205, Sedanstraße 19 October 15, 2024