# HAMILTONIAN DYNAMICS AT MARYLAND

FEBRUARY 24 - 28, 2025

ABOUT THE WORKSHOP

At the crossroads of dynamics and mathematical physics, the study of Hamiltonian systems demands a deep exchange of ideas between many different areas of mathematics. Indeed, many of the recents advances in the eld merge techniques coming from dynamics and nonlinear analysis, perturbation theory, symplectic geometry or probability. The benet is reciprocal since, the intrinsic complexity of the dynamics exhibited by Hamiltonian systems, has led to the development of many powerful techniques which are now standard tools in dynamics, analysis and geometry. Our program aims to gather several experts in the eld, providing them a unique opportunity to interact, tackle longstanding questions and explore new emerging directions.
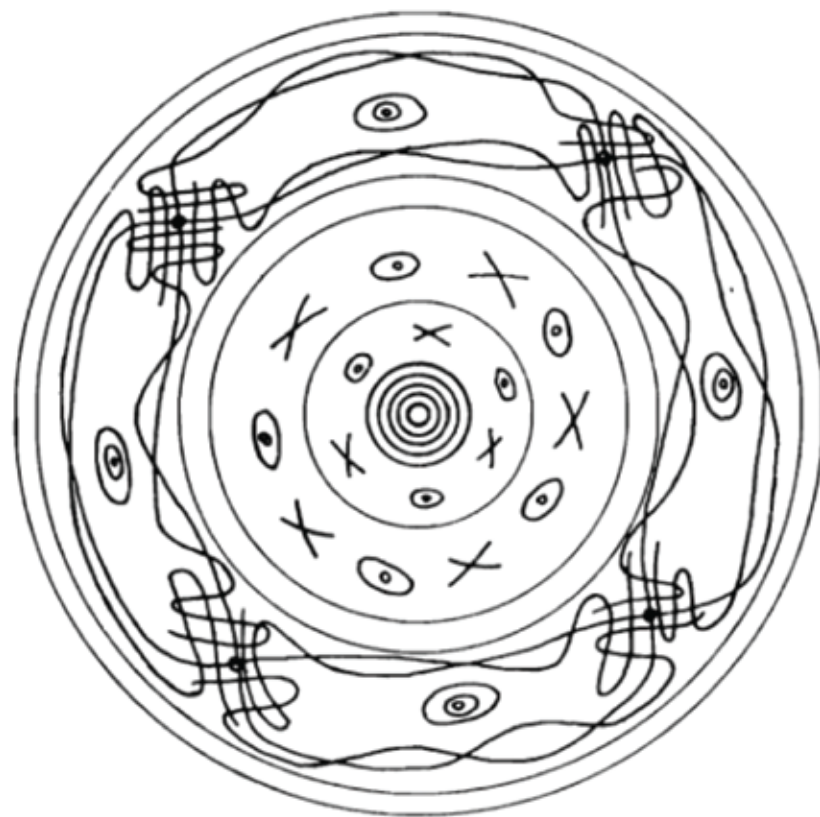
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