

FELIX KLEIN SEMINAR

Speaker: Andrés Pedroza

University of Colima

Date: Thursday, April 21, 2022

Time: 2:00 PM

Location: 258 Hurley Hall

Zoom URL: NA



Lecture Title:

On the rank of π_1 of the group of Hamiltonian diffeomorphisms

Abstract

In this talk I will show that the rank of the fundamental group of the group of Hamiltonian diffeomorphisms can be made as large as possible by 4-dimensional closed symplectic manifolds. A fundamental aspect in the proof of the above result is the symplectic one-point blow up. More precisely, I will present conditions under which a loop of Hamiltonian diffeomorphisms induces a loop in the one-point blow up of infinite order.