

# Colloquium

University of Notre Dame  
Department of Mathematics

Vinicius Ramos - Instituto de Matemática Pura e Aplicada

**Speaker:** Vinicius Ramos

Instituto de Matemática Pura e Aplicada



**Will give a lecture entitled**  
Symplectic embeddings and billiards

**Date:** Thursday, January 27, 2022

**Time:** 4:00 PM

**Location:** 127 Hayes-Healy Hall

**Zoom URL:** [notredame.zoom.us/j/92643946521?pwd=a3R1UUI5R1IRM1F0YWI2YnJmS1h2dz09](https://notredame.zoom.us/j/92643946521?pwd=a3R1UUI5R1IRM1F0YWI2YnJmS1h2dz09)

**Departmental Tea:** Tea in Room 257 (lounge in Hurley Hall) at 3:30 p.m.

**Abstract:**

Symplectic geometry is the study of the underlying structures of Hamiltonian dynamics. The topology of these structures has both rigid and flexible properties. At the core of the study of symplectic topology is the symplectic embedding question. In this talk, I will survey the history of symplectic embeddings and I will mention some recent developments relating the existence of some of these embeddings with billiard dynamics.