

Using holomorphic curves to construct Conley blocks that obstruct hyperbolicity

Umberto Hryniewicz¹, **Pedro Antonio Santoro Salomão**²

¹ UFRJ

² IME-USP

In this talk we would like to explain how to use finite-energy curves to construct isolated Conley blocks for 3-dimensional Reeb flows. Some of these blocks have trivial Conley index, but non-trivial chain recurrent set. Then we will explain how to use results of Bowen and Franks to prove that there can be no uniform hyperbolicity inside the block. Finally, examples in celestial mechanics will be presented.