

1116-53-2582

Sahana Vasudevan* (svasudevan@college.harvard.edu). *Classifying Monotone Lagrangian Tori in $S^2 \times S^2$ up to Hamiltonian Isotopy.*

It was shown by Ivrii that any two Lagrangian tori in $S^2 \times S^2$ are Lagrangian isotopic. We consider the question of Hamiltonian isotopy for monotone Lagrangian tori. It is known that there are at least two Hamiltonian isotopy classes (corresponding to the Clifford torus and the Chekanov torus). This question can be reformulated in terms of the Hofer geometry of equatorial curves on S^2 , and in this formulation we prove some results related to the classification problem. (Received September 22, 2015)