

Department of Mathematics, BGU

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## Colloquium

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*On Tuesday, June ,13 2023*

*At 14:30 – 15:30*

*In Math 101-*

Misha Verbitsky (IMPA)

will talk about

### **Ergodic theory and symplectic packing**

Abstract: The group of diffeomorphisms acts on the space of symplectic structures on a given manifold. Taking a quotient by isotopies, we obtain the mapping class group action on the Teichmüller space of symplectic structures; the latter is a finite-dimensional manifold. The mapping class group action on the Teichmüller space is quite often ergodic, which leads to important consequences for symplectic invariants, such as symplectic packing problems. I would describe some of the problems which were solved using this approach. This is a joint work with Michael Entov.