

## **Yaron Ostrover**

*Title: Symplectic Measurements*

### Abstract:

We shall discuss several topics regarding symplectic measurements of domains in the classical phase space. Specifically, the following topics will be covered:

- 1) Introduction to the theory of symplectic capacities, known results and open questions.
- 2) Viterbo's volume-capacity conjecture, and its relation with Mahler's conjecture.
- 3) Probabilistic approach to estimate symplectic capacities.
- 4) computational complexity aspects of symplectic measurements.