

## **Amenable category and complexity**

**Speaker:** Pietro Capovilla

**Abstract:** Several results in Bounded Cohomology theory are expressed by means of the multiplicity of amenable open covers. By studying the minimal cardinality of these covers one gets the notion of amenable category. Topological complexity is another categorical invariant introduced by Farber in the context of topological robotics. In this talk we study the relation between amenable category and topological complexity.

Time permitting, we also discuss the monotonicity problem for degree-one maps and amenable category.

This is a joint work with Clara Löh and Marco Moraschini.