

Speaker: Panagiotis Batakidis (Aristotle University of Thessaloniki)

Title: Old and new about the Atiyah class

ABSTRACT. We will review the development of the notion of the Atiyah class, essentially a class measuring the obstruction to the existence of various, mainly geometric, structures. The focus will be on the major generalizations of the class in Geometry and Representation Theory reaching the recent attempts to introduce it to nonlinear settings. Parts of the talk will be about joint works with Sylvain Lavau, Fani Petalidou and Yannick Voglaire.