Positive scalar curvature and delocalized invariant of index type

Vito Felice Zenobi
Sapienza University of Rome
vitofelice.zenobi@uniroma1.it

ABSTRACT

Stefan Stolz developed the long exact positive scalar curvature sequence. It can be used to get information about the "positive scalar curvature bordism group". This organizes at the same time obstructions to the existence of metrics of positive scalar curvature on a given manifold and classification results about how rich the set of metrics of positive scalar curvature is. The talk is about a joint work with **Paolo Piazza** and **Thomas Schick**, where we extract information from this bordism groups about the moduli space of metric with positive scalar curvature on a compact manifold by means of invariants in K-theory and cyclic cohomology.