

On the topology of moduli spaces of non-negative Ricci-curved metrics

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Abstract:

By now there are a lot of examples of manifolds for which the space or moduli space of positive scalar curved metrics has non-trivial topology. There are much less examples where one has non-trivial topology for the space or moduli space of positive or non-negative Ricci-curved metrics.

In this talk I will report on on-going joint work with Wilderich Tuschmann on the topology of moduli spaces of non-negative Ricci curved metrics on closed non-simply connected manifolds. We give examples of manifolds for which the fundamental group or the higher rational cohomology groups of these spaces are non-trivial.

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