

GEOMETRIC STRUCTURE OF SELF COVERING MANIFOLDS

Online seminar

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Abstract: A topological space is self-covering if the space is a non-trivial cover of itself. I will talk about a joint work with Lizhen Qin and Botong Wang on the geometric structure of self-covering manifolds. For example, we show that in dimension >5 , a self-covering manifold with infinite cyclic fundamental group is a fiber bundle over the circle. We also construct examples of self-covering manifolds which are not fiber bundle over the circle, where the fundamental group contains torsion.