

Twisted Alexander invariants and low-dimensional topology

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Twisted Alexander invariants are defined by choosing a representation of the fundamental group of a manifold. They are a generalization of classical Alexander invariants and were successfully used in many low-dimensional topology problems including fiberedness, periodic knots, Thurston norm/knot genus, knot concordance, and existence of a symplectic structure. In this talk we will discuss various aspects of twisted Alexander invariants and their applications to knots and manifolds.

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