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Degree of L2 Alexander torsion for 3-manifolds

Thursday, October 13, 2016 11:00 AM (50 minutes)

For an irreducible orientable compact 3-manifold N with empty or incompressible toral boundary, the L2 Alexander torsion has been introduced by Dubois, Friedl, and Lueck. In this talk, I'll explain the idea to prove that the full L2 Alexander torsion is a continuous everywhere positive and asymptotically monomial function in both ends. It can be further shown that the degree of the full L2 Alexander torsion is equal to the Thurston norm of the defining first cohomology class.

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