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# A topological formula for the central value of symplectic L-functions and Reidemeister torsion

*Friday, 7 June 2024 10:00 (1 hour)*

We give a global cohomological formula for the central value of the L-function of a symplectic representation on a curve up to squares. It involves a map C. Soule defined in his work on the Lichtenbaum conjectures. The proof relies crucially on a similar formula for the Reidemeister torsion of 3-manifolds. We sketch both analogous arithmetic and topological pictures. This is based on joint work with A. Venkatesh.

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