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Poincaré duality and degrees of twisted Alexander polynomials

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(Submitted on 15 Jul 2011)

We prove duality theorems for twisted Reidemeister torsions and twisted Alexander polynomials generalizing the results of Turaev. As a corollary we determine the parity of the degrees of twisted Alexander polynomials of 3-manifolds in many cases.

Comments: 42 pages

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MSC classes: 57M27 (Primary) 57Q10 (Secondary)

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