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Charles D. Frohman and **Joanna Kania-Bartoszyńska*** (jkaniaba@nsf.gov), National Science Foundation, 4201 Wilson Blvd., Arlington, VA 22230. *The Reidemeister torsion of a 3-dimensional homology sphere at the trivial representation.*

The Reidemeister torsion of a 3-dimensional homology sphere is related to the Turaev-Viro invariant at level infinity. We evaluate the contribution of the trivial representation by integrating a Gaussian over a quadratic cone. (Received February 19, 2006)