THH, TR and Fixed Points.

While the topological Dennis trace is a powerful method for computations in algebraic K-theory, it is still somewhat mysterious. What, exactly, is it doing? In this talk I’ll gesture towards the idea that it’s computing fixed point invariants, such as the Lefschetz number, and higher versions thereof. I’ll also discuss how the lift to TR is computing something resembling a zeta function. This is joint work with Kate Ponto, and with John Lind, Cary Malkiewich, Kate Ponto and Inna Zakharevich. (Received January 28, 2019)