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**John A. Lind\*** ([lind@reed.edu](mailto:lind@reed.edu)). *Transfer maps in topological Hochschild homology*. Preliminary report.

A transfer map is a stable wrong-way map which exists under appropriate finiteness hypotheses and contains information related to Euler characteristics and indices. The transfer map in topological Hochschild homology (THH) is constructed using Morita theory, and is important because it is closely related to the transfer map in algebraic K-theory. An important example of the THH transfer is the transfer map of free loop spaces  $LB_+ \rightarrow LE_+$  associated to a fibration  $E \rightarrow B$  with finite CW complex fibers.

In previous work with C. Malkiewich, we gave a new construction of the transfer map in THH using K. Ponto's theory of traces for bicategories. In this talk, I will report on applications of our work to fixed point theory and string topology. (Received January 31, 2018)