

1038-55-55

Yuichi Iwashita* (ciwas1@uis.edu), Mathematical Sciences Program, University of Illinois at Springfield, One University Plaza, MS WUIS 13, Springfield, IL 62703. *A Parameterized A-theory of Space and Lefschetz Trace.*

By mimicking the Waldhausen's A-theory of spaces, we can construct a variant of the A-theory of a space parameterized by a self map of the space. This parameterized A-theory is equipped with the linearization process to the relative K-theory of ring with bimodule. Through this process followed by the Dennis Trace map, we can recover the Lefschetz-Reidemeister trace of the self map. (Received January 22, 2008)