1145-E5-812 **J. Travis Shrontz*** (`travis.shrontz@gmail.com`). *The Rhetoric of Mathematical Logicism, Intuitionism, and Formalism.*

Rhetoric and mathematics have often been cast as opposing fields, operating independent of one another. Only recently have rhetorical scholars begun to develop an understanding of the connections between the two subjects. In this paper, I argue that not only are mathematics and rhetoric intimately connected, but that mathematics is necessarily rhetorical. I do so through an analysis of the foundations of mathematics in the philosophical schools of logicism, intuitionism, and formalism using Kenneth Burke's pentad. I then establish a method for analyzing mathematical artifacts based on their philosophical foundation. (Received September 15, 2018)