

1121-16-97

Stephen Hermes and **Kiyoshi Igusa*** (igusa@brandeis.edu), Mathematics Department,
Brandeis University, Waltham, MA 02454. *No gap conjecture for tame hereditary algebras.*

The “No Gap Conjecture” of states that the set of lengths of maximal green sequences for hereditary algebras over an algebraically closed field has no gaps. This follows from a stronger conjecture that any two maximal green sequences can be “polygonally deformed” into each other. We prove this stronger conjecture for all tame hereditary algebras over any field. The proof follows an idea of Garver-McConville who use unpublished results of Nathan Reading to essentially solve the No Gap Conjecture for all simply-laced cluster-tilted algebras of finite type. (Received July 13, 2016)