

1154-13-1773

Jesse Keyton* (jskeyton@uark.edu). *Homogeneous Liaison and the Sequentially Bounded Licci Property.*

In CI-Liaison, much effort has been made to understand ideals in the liaison class of a complete intersection, called licci ideals. We consider zero-dimensional licci ideals in a polynomial ring and focus on the degrees of the forms generating the regular sequences. Using a sequentially bounded condition on these degrees, E. Chong discovered a large class of licci ideals satisfying the EGH conjecture (among them, grade 3 Gorenstein ideals). He raised the question of whether such links were possible for all homogeneous licci ideals. We answer his question in the negative, and in doing so answer a question of C. Huneke and B. Ulrich about strongly licci ideals. The structure of certain Betti tables plays a central role in our proof. (Received September 16, 2019)