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

In CI-Liaison, significant effort has been made to study ideals that are in the linkage class of a complete intersection, which are called licci ideals. When the ring is a polynomial ring, recently E. Chong defined a "sequentially bounded" condition on the degrees of the polynomials generating the regular sequences of the links, and used this condition to find a large class of licci ideals satisfying the Eisenbud-Green-Harris Conjecture (among them, all grade 3 homogeneous Gorenstein ideals). He raised the question of whether all homogeneous licci ideals are sequentially bounded licci. In this talk we construct a class of examples that are homogeneous and licci, but not sequentially bounded licci, thus answering his question in the negative. The structure of certain minimal graded free resolutions plays a central role in our proof. (Received January 22, 2019)