

1103-13-141 **Angelica Benito, Greg Muller, Jenna Rajchgot*** (rajchgot@umich.edu) and **Karen E. Smith.** *Singularities of locally acyclic cluster algebras.*

Locally acyclic cluster algebras, introduced by Greg Muller, are a class of cluster algebras which are flexible enough to include many of the fundamental examples of cluster algebras, yet restrictive enough to avoid the pathological behavior sometimes found in general cluster algebras. I will show that locally acyclic cluster algebras of positive characteristic are strongly F-regular, a condition with strong consequences for singularities. Time permitting, I'll provide some examples to show that we cannot expect arbitrary cluster algebras to be strongly F-regular. No knowledge of cluster algebras or strong F-regularity will be assumed.

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