1167-16-166 Karin Baur* (pmtkb@leeds.ac.uk). Structure of Grassmannian cluster categories.

The coordinate ring of the Grassmannian variety of k-dimensional subspaces of an n-dimensional vector space has a cluster algebra structure with Plücker relations giving rise to exchange relations (Scott). An additive categorification of this is given by the category of maximal Cohen Macaulay modules over a quotient of a preprojective algebra (Jensen-King-Su). We study the structure of this category in the infinite types and show links to root combinatorics of an associated Kac Moody Lie algebra. This is joint work with Bogdanic, Garcia Elsener and Li. (Received March 05, 2021)