

1089-13-351

David Speyer and **Hugh Thomas*** (hthomas@unb.ca). *c-vectors of acyclic cluster algebras.*

c-vectors are part of the combinatorial framework of a cluster algebra. Though relative late-comers in cluster algebra theory, they play a powerful role: it was shown by Nakanishi and Zelevinsky that many facts about cluster algebras follow by an elementary argument once it is known that each *c*-vector has all entries either non-negative or non-positive. I will give a classification of the collections of vectors that can appear as the *c*-vectors of a cluster in a skew-symmetrizable cluster algebra starting from an acyclic seed, in terms of the root system associated to the initial seed. This talk is based on [arXiv:1203.0277](https://arxiv.org/abs/1203.0277). (Received February 19, 2013)