

1112-13-561

Amanda Beecher (abeecher@ramapo.edu), 505 Ramapo Valley Road, Mathematics Convening Group, ASB-017, Mahwah, NJ 07430, **Timothy B. P. Clark*** (tbclark@loyola.edu), 4501 N Charles Street, Department of Mathematics and Statistics, Knott Hall 316b, Baltimore, MD 21211, and **Alexandre Tchernev** (tchernev@albany.edu), 1400 Washington Avenue, Department of Mathematics and Statistics, ES 137B, Albany, NY 12222. *Posets underlying resolutions of multigraded modules*. Preliminary report.

We interpret combinatorially several aspects of the third author's T -resolution of a multigraded module M . Indeed, bases for the modules in this resolution are given by the homology of open intervals in a subposet of a lattice associated to the matroid underlying a free presentation of M . Furthermore, the incidence structure of this *reduced lattice of T -flats* encodes much of the mapping structure of the T -resolution. (Received August 11, 2015)