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Sonja Mapes* (mapes@math.columbia.edu), Dept. of Mathematics, Columbia University, room 509, MC 4406, 2990 Broadway, New York, NY 10027. *Finite atomic lattices and resolutions of associated monomial ideals*. Preliminary report.

The minimal free resolution of a monomial ideal can be expressed in terms of the LCM lattice of the ideal. It has also been shown that given a finite atomic lattice L one can construct certain monomial ideals M whose LCM lattice is L . This talk will explore the relationship between LCM lattices with similar associated monomial ideals and their resolutions. (Received September 13, 2008)