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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. *LCM lattices and Cellular Resolutions of Monomial Ideals*. Preliminary report.

In the study of cellular resolutions of monomial ideals it is often useful to consider the LCM lattice of the given monomial ideal. It has been shown that given a finite atomic lattice L one can construct certain monomial ideals M whose LCM lattice is L . The purpose of this talk is to discuss the relationship between finite atomic lattices which have similar associated monomial ideals. (Received August 07, 2008)