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Christopher A. Francisco, Jeffrey Mermin and Jay Schweig* (jayschweig@gmail.com),
Stillwater, OK 74078. *LCM Lattices of Pure Resolutions*.

If I is a monomial ideal, the multigraded Betti numbers of I are encoded in its LCM-lattice, which is the set of least common multiples of subsets of generators of I , ordered by divisibility. We give necessary and sufficient conditions on an LCM lattice for it to correspond to some ideal I whose minimal resolution is pure. (Received August 25, 2015)