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Christopher O'Neill*, 3320 Adelaide Way, Belmont, CA 94002, and **Ezra Miller** and **Thomas Kahle**. *Binomial Irreducible Decomposition*.

A recent paper by Kahle and Miller introduces the notion of mesoprimary decomposition of monoid congruences, and uses it to give a combinatorial method for constructing primary decompositions of binomial ideals. In this talk, we extend this framework to construct irreducible decompositions of binomial ideals. (Received September 17, 2013)