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Kuei-Nuan Lin*, kul20@psu.edu, and **Paolo Mantero**. *Projective Dimensions of Square-Free Monomial Ideals*. Preliminary report.

We associate square-free monomial ideals with hypergraphs that is first introduced by Kimura-Terai-Yoshida. We are able to find the projective dimension of a hypergraph when each of its disjoint pieces has at most one cycle. This is joint work with Paolo Mantero. (Received August 02, 2015)