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Kuei-Nuan Lin* (ku120@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 write the projective dimensions of hypergraphs in terms of invariants of hypergraphs. More precisely, we describe the projective dimension of a hypergraph in terms of its 1-skeleton structure. This is joint work with Paolo Mantero. (Received August 26, 2014)