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Todd Morra*, tmorra@clemson.edu. *Canonical modules of Stanley-Reisner rings of certain independence complexes and related free resolutions.* Preliminary report.

We use results of D'Alì, Fløystad, and Nematbakhsh [DFN] to explicitly describe the canonical modules of Stanley-Reisner rings of certain Cohen-Macaulay simplicial complexes. We will also report on progress towards finding a DG-algebra structure for a resolution given in [DFN] when restricting to such complexes. (Received July 30, 2020)