STRONG HOMOTOPY LIE ALGEBRA COHOMOLOGY OF COMPLETELY PRUNABLE HYPERGRAPHS. Marco Aldi & Samuel Bevins, Department of Mathematics and Applied Mathematics, Virginia Commonwealth University. We exploit the procedure to attach a nilpotent strong homotopy Lie algebra to a simple finite completely prunable hypergraph and prove that the corresponding cohomology groups are generated by taking iterated products and triple Massey products in degree 1. We conclude with a description of the cohomology of the Lie algebras associated with path graphs as graded commutative algebras. (Supported by: VCU Quest Award “Quantum Fields and Knots: An Integrative Approach.”). Author contact: bevinssj@vcu.edu.