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Jonathan Browder and **Steven Klee***, Seattle University Department of Mathematics, 901 12th Avenue, Seattle, WA 98122. *A classification of the face numbers of Buchsbaum simplicial posets.*

The family of Buchsbaum simplicial posets over a field \mathbf{k} provides an algebraic abstraction of the family of (\mathbf{k} -homology) manifold triangulations. In 2008, Novik and Swartz established lower bounds on the face numbers of a Buchsbaum simplicial poset as a function of its dimension and the dimension of its \mathbf{k} -homology spaces; and they conjectured that these lower bounds are sufficient to classify face numbers of Buchsbaum simplicial posets with prescribed Betti numbers. We prove this conjecture by using methods from the theory of (pseudo)manifold crystallizations to construct simplicial posets with prescribed face numbers and Betti numbers. (Received August 24, 2013)