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Charles Steinhorn* (steinhorn@vassar.edu), Department of Mathematics, Vassar College, 124 Raymond Ave, Poughkeepsie, NY 12604. *On linearly ordered structures of finite rank.*

This is joint work with A. Onshuus concerning the development of a model theory for linearly ordered structures of finite rank, in which o-minimal structures have rank one (and degree one). In this talk, an analysis of linear orders of finite rank is presented, which in particular includes all linear orders definable in o-minimal structures. Potential applications also will be discussed. (Received September 19, 2010)