1003-15-1167 **Markus Reitenbach*** (`mreitenb@syr.edu`). *Differentiation Algorithms for Representations of Partially Ordered Sets.* Preliminary report.

Recent developments in the theory of representations of partially ordered sets (posets) are discussed. In particular, a generalization of the differentiation algorithm with respect to a maximal element (due to Nazarova and Roiter) is outlined. This algorithm can be applied to answer questions about the representation type of a poset. (Received October 04, 2004)