1125-06-2973        **Harry Altman\*** (`haltman@umich.edu`). *The Surreal Exponential and Order-Reversing Maps between Well-Ordered Set.* Preliminary report.

In this talk we will discuss, for given ordinals $\alpha$ and $\beta$, how one may compute the maximum extending ordinal of the poset of all order-reversing functions from $\alpha$ to $\beta$ – a feat that has not actually been performed for that many other well partial orders. We focus on the case where we restrict to functions which are eventually zero, and observe that by choosing $\alpha$ to be $\omega$, one may provide an order-theoretic interpretation for the surreal exponential as applied to limit ordinals. (Received September 20, 2016)