1044-54-116   **William S. Mahavier*** (`wsm@emory.edu`), Department of Mathematics and CS, Emory University, Atlanta, GA 30322, and **W. T. Ingram**. *Inverse limits with upper semi-continuous functions.*

If $X_1, X_2, X_3, \ldots$ is a sequence of compact Hausdorff spaces and $\mathbf{f} = f_1, f_2, f_3, \ldots$ where for each positive integer i, f_i is an upper semi-continuous function from X_{i+1} into 2^{X_i}, the inverse limit of $\mathbf{f}$ is the subset of $\prod_{i>0} X_i$ consisting of all points $x_1, x_2, x_3, \ldots$ such that for each i, $x_i \in f_i(x_{i+i})$. We will discuss this new type of inverse limit, give some examples, and discuss the contents of a book being written by Tom Ingram and myself that includes generalizations to partially ordered sets. (Received August 26, 2008)