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Alexander Cornelius* (Alexander_Cornelius@baylor.edu), Baylor University, Mathematics Department, One Bear Place #97328, Waco, TX 76798. *Inverse Limits of Compact Hausdorff Spaces with Upper Semi-Continuous Bonding Maps*. Preliminary report.

In inverse limits with continuous bonding maps, any compact subset of the inverse limit is the inverse limit of its projections. In the setting of an inverse limit of compact Hausdorff spaces with upper semi-continuous bonding functions this need not be the case. In this, Weak Crossovers are defined and conditions are given for which a compact set is the inverse limit of its projections. (Received August 29, 2008)