1033-54-122   **W. T. Ingram*** (`ingram@umr.edu`), 284 Windmill Mountain Rd, Spring Branch, TX 78070.
Inverse Limits with Upper Semi-continuous Functions That Are Unions of Mappings. Preliminary report.

We will review the definition of inverse limits on compact Hausdorff spaces using upper semi-continuous set-valued bonding functions and discuss a few examples. We will follow this by outlining a proof of the following theorem.

Theorem. *If $f : [0, 1] \to 2^{[0,1]}$ is an upper semi-continuous function that is the union of finitely many mappings, then the inverse limit with f as the only bonding function is a one dimensional continuum.* (Received September 07, 2007)