1014-54-1725   **Susan Andima** (`sandima@liu.edu`), Deparment of Mathematics, C W Post Campus of Long Island University, Brookville, NY 11548, **Ralph Kopperman*** (`rdkcc@att.net`), Deparment of Mathematics, City College of CUNY, New York, NY 10031, and **Peter Nickolas** (`peter@uow.edu.au`), Deparment of Mathematics, University of Wollongong, Wollongong, Australia. *Asymmetric Ellis theory.* Preliminary report.

Ellis' theorem states that each locally compact Hausdorff topology on a group with respect to which the group operation is continuous in each variable, must be a group topology (that is, the group operation is jointly continuous, and inversion is continuous, with respect to the given topology).

This result fails for non-Hausdorff topologies, such as the topology of upper open intervals in the additive group of reals.

We discuss the proper generalization of Ellis' theorem and some related results, to this situation. (Received September 28, 2005)