

1096-13-2247

**Nicolas Allen Smoot\*** (ns0566@stu.armstrong.edu), 114 Blue Heron Court, Richmond Hill, GA 31324. *On the Stability of Ring Structures in Direct Limits*. Preliminary report.

In this talk all rings are commutative with 1. It is known that the direct limit of a directed partially-ordered set of rings (domains) and ring homomorphisms is itself a ring (domain). We wish to consider these types of direct limit constructions. In particular, we will be interested in determining whether a property which is shared by every ring in a directed partially-ordered set is necessarily preserved in the direct limit. (Received September 17, 2013)