

1014-08-1630

**Wolfram F Bentz\*** ([wfbentz@alumni.uwaterloo.ca](mailto:wfbentz@alumni.uwaterloo.ca)). *Algebraic characterizations for topological separation properties.*

In 1977, Walter Taylor showed that  $T_0$ -topological algebras in congruence permutable varieties are Hausdorff. Since then, this result has been expanded by Gumm, Coleman, Kearnes, Sequeira, as well as myself up to the point that we are now closer to finding an algebraic characterization of the varieties with this property.

One can generalize the above question by replacing Hausdorffness with any other separation property stronger than  $T_0$ . In this talk, I will give an introduction to the generalized problem, state a short summary of the current situation for different separation properties, and announce a new, not yet published result. (Received September 28, 2005)