

**Meeting:** 999, Nashville, Tennessee, SS 4A, Special Session on Universal Algebra and Lattice Theory

999-06-290      **Mai Gehrke\*** (mgehrke@math.ku.dk), New Mexico State Univ./Copenhagen Univ., Institute for Mathematical Sciences, Universitetsparken 5, DK-2100 Copenhagen, Denmark. *Canonical extensions of partially ordered algebras*. Preliminary report.

In this talk we will define canonical extension for arbitrary posets and monotone maps. We will indicate how this yields concrete representation theorems and topological-type dualities for partially ordered algebras, and relational semantics for logics with algebraic semantics within partially ordered algebras. (Received August 31, 2004)