1014-06-865 **Ralph Nelson McKenzie*** (mckenzie@math.vanderbilt.edu), Mathematics Department, 1326 Stevenson Center, Vanderbilt University, Nashville, TN 37240. *Finite basis problems for quasivarieties, and the weak extension property.*

We have announced that every finitely generated quasivariety of finite signature whose relative congruence lattices are meet semi-distributive is finitely axiomatizable. The weak extension property (WEP) for quasivarieties plays a role in the proof of this result. A quasivariety $\mathcal{K}$ is said to have the weak extension property if for every algebra $\mathbf{A} \in \mathcal{K}$ and for every pair of congruences α, β of $\mathbf{A}$ such that α and β intersect to 0_A (the identity relation), the least $\mathcal{K}$-congruences of $\mathbf{A}$ including α (respectively β) also intersect to 0_A. W. Dziobiak has conjectured that every finitely generated quasivariety of finite signature with the weak extension property is finitely axiomatizable. (This is a far-reaching extension of Park's conjecture for varieties.) In this talk, I will describe some results about WEP that were proved recently by our myself.

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