LAURENT MARCOUX, Dept. of Pure Mathematics, University of Waterloo, Waterloo, Ontario N2L 3G1 *Relative annihilators and relative commutants*

If \mathcal{A} is a algebra of operators acting on a Hilbert space \mathcal{H} , and if \mathcal{S} is a subspace of \mathcal{A} , the *relative commutant* of \mathcal{S} in \mathcal{A} is the set $\mathcal{S}^{\dagger} = \{T \in \mathcal{A} : TS = ST \text{ for all } S \in \mathcal{S}\}$. The *relative annihilator* of \mathcal{S} is $\mathcal{S}^{\circ} = \{T \in \mathcal{A} : TS = 0 = ST\}$ for all $S \in \mathcal{S}$. In this talk we shall discuss the relationship between these two notions for certain weak-operator closed subspaces of nest algebras.