1078-08-405 **Agnes Szendrei*** (szendrei@euclid.colorado.edu). *Separating clones near the top of the clone lattice.* Preliminary report.

Let $\mathcal{O}$ be the clone of all operations on a finite set A with at least three elements. For a finitely generated subclone $\mathcal{Q}$ of $\mathcal{O}$, the clones $\mathcal{C}\,(\subseteq \mathcal{O})$ not containing $\mathcal{Q}$ can be best classified by finding a manageable (finite) set R of relations on A such that for every clone $\mathcal{C}\,(\subseteq \mathcal{O})$ we have $\mathcal{C} \not\supseteq \mathcal{Q}$ iff for some $\rho \in R$ all operations in $\mathcal{C}$ preserve ρ. The aim of the talk is to discuss separation theorems of this kind for some clones $\mathcal{Q}$ near the top of the clone lattice. (Received December 13, 2011)