

962-47-1171

Srdjan Petrovic* (petrovic@wmich.edu), Department of Mathematics and Statistics, Western Michigan University, Kalamazoo, MI 49008, **Alan Lambert**, Department of Mathematics, UNCC, Charlotte, NC, and **Animikh Biswas**, Department of Mathematics, UNCC, Charlotte, NC. *On the λ -commutativity of Volterra operators*. Preliminary report.

When an operator X satisfies the equation $TX = \lambda XT$ we say that X λ -commutes with T . In this paper we consider the case when T is the Volterra integral operator on $L^2[0, 1]$ and X is any integral operator on the same space. We show that, in this situation, the equation above has solution if and only if $\lambda > 0$. (Received October 02, 2000)