

Meeting: 1003, Atlanta, Georgia, AMS CP 1, AMS Contributed Paper Session

1003-46-895 **Lance W Nielsen*** (lnielsen@creighton.edu), Department of Mathematics, Creighton University, 2500 California Plaza, Omaha, NE 68154. *An Integral Equation for Feynman's Operational Calculus*. Preliminary report.

In this talk we present an integral equation that is satisfied by Feynman's operational calculus. The integral equation is obtained via the disentangling map formalism, the evolution equation of DeFacio, Johnson, and Lapidus, and an application of the Cauchy kernel for several complex variables. (Received September 30, 2004)