1019-32-20   **L. A. Coburn*** (`lcoburn@buffalo.edu`). *Lipschitz estimates for Berezin's operator calculus.*
F.A. Berezin introduced a general "symbol calculus" for linear operators on reproducing kernel Hilbert spaces. For the Hilbert space $H^2(\mathbf{C}^n, d\mu)$ of Gaussian square-integrable entire functions on complex n-space, $\mathbf{C}^n$, as well as for the Bergman Hilbert spaces $A^2(\Omega)$ of Euclidean volume square-integrable holomorphic functions on Ω, an arbitrary bounded domain in $\mathbf{C}^n$, I recently obtained sharp Lipschitz estimates for Berezin symbols of arbitrary bounded operators. These results and some applications will be discussed in this presentation. (Received July 10, 2006)

1