1077-47-1359 **Katherine Heller** and **Barbara D. MacCluer*** (bdm3f@virginia.edu), Kerchof Hall, PO Box 400137, University of Virginia, Charlottesville, VA 22904-4137, and **Rachel J. Weir**. *Compact differences of composition operators in several variables.*

For an analytic self-map φ of a domain Ω in $\mathbb{C}^N$, the composition operator C_φ is defined by $C_\varphi(f) = f \circ \varphi$, for f analytic in Ω. For a pair φ, ψ of linear-fractional self-maps of the unit ball B_N in $\mathbb{C}^N$, $N \geq 1$, we show that the difference $C_\varphi - C_\psi$ cannot be non-trivially compact on either the Hardy space $H^2(B_N)$ or any standard weighted Bergman space $A^2_\alpha(B_N)$. Our arguments emphasize geometric properties of the maps φ and ψ. (Received September 19, 2011)