Irfan Bagci and Samuel H Chamberlin* (samuel.chamberlin@park.edu), Park University, 8700 NW River Park Dr. #30, Parkville, MO 64152. Kostant map superalgebras.

Given a classical Lie superalgebra $g$ and a complex commutative associative algebra with unity $A$, we exhibit a Kostant superalgebra (integral form) for the universal enveloping superalgebra of the map superalgebra $g \otimes A$ and an explicit Poincaré-Birkhoff-Witt-like integral basis for this integral form. This is achieved via explicit commutation formulas in the universal enveloping superalgebra. (Received September 24, 2012)