1109-16-277 **Daniel Brice*** (dbrice@tuskegee.edu). *Parabolic Lie algebras are zero product determined.*

An algebra, $(A, *)$ is said to be *zero product determined* if for every bilinear map $\varphi : A \times A \to X$ (with X an arbitrary vector space) satisfying $\varphi(x, y) = 0$ whenever $x * y = 0$ there is a linear map $\tilde{\varphi} : A^2 \to X$ such that $\varphi(x, y) = \tilde{\varphi}(x * y)$. Let $\mathfrak{q}$ be a parabolic subalgebra of a reductive Lie algebra $\mathfrak{g}$. Building on the results of D. Wang, et al, and the previous work of B– and Huang, we show that $\mathfrak{q}$ and $\operatorname{Der} \mathfrak{q}$ are zero product determined, including the special case where $\mathfrak{q} = \mathfrak{g}$. (Joint work with Huajun Huang). (Received February 03, 2015)