1097-13-134 **Lee Klingler**, **Warren McGovern** and **Madhav P Sharma*** (msharma2@fau.edu), Florida Atlantic University, Department of Mathematical Sciences, 777 Glades Rd, Boca Raton, FL 33431.
Gaussian Property of the rings $R(X)$ and $R\langle X\rangle$. Preliminary report.

The content of a polynomial f over a commutative ring R is the ideal $c(f)$ of R generated by the coefficients of f. A commutative ring R is said to be Gaussian if $c(fg) = c(f)c(g)$ for all polynomials f and g over R. A number of authors have formulated necessary and sufficient conditions for $R(X)$ (respectively $R\langle X\rangle$) to be semihereditary, w. dim ≤ 1, Arithmetical, and Prüfer. An open problem has been for the Gaussian Property. We give a necessary and sufficient condition for $R(X)$ and $R\langle X\rangle$ to be Gaussian for a commutative ring R whose the square of the nilradical is zero. (Received January 17, 2014)