1047-30-241 **Zhuan J Ye*** (ye@math.niu.edu), Department of Mathematics, Northern Illinois Univ, DeKalb, IL 60115. *On the differential independence of the Riemann Zeta Function and the Euler Gamma Function.* Preliminary report.

We prove that the Riemann ζ-function and the Euler Γ-function cannot satisfy a class of algebraic differential polynomial equations whose coefficients are in $\mathbf{C}$ (joint work with Bao Qin Li). (Received January 29, 2009)