

1014-62-1449      **Miguel A Arcones** and **Yishi Wang\*** ([wang@math.binghamton.edu](mailto:wang@math.binghamton.edu)), math department,  
Binghamon University, Binghamton, NY 13902. *Some new tests for normality based on  
U-processes.*

In this talk we present two new tests for normality based on U-processes. These tests improve on the Lilliefors test. Consistency and asymptotic null distribution of these tests are obtained. We present simulations of the power of these tests and of several classical tests for some fixed alternatives. These simulations show that the presented tests are competitive. (Received September 28, 2005)