

1036-35-50

**Yanyan Li\*** ([yyli@math.rutgers.edu](mailto:yyli@math.rutgers.edu)), Rutgers University, 110 frelinghuysen Rd, Piscataway, 08854. *A comparison principle, a Liouville theorem and applications.*

I will present a comparison principle for degenerate fully nonlinear elliptic equations, a fully nonlinear version of the classical Liouville theorem for positive entire harmonic functions, and an application which yields optimal gradient estimates for general conformally invariant fully nonlinear elliptic equations of second order. (Received December 28, 2007)