1114-35-237   **Robert R Jensen*** (`rjensen@luc.edu`), 1032 W. Sheridan Rd, Chicago, IL 60660. *A Geometric Derivation of the Maximum Principle and Applications.* Preliminary report.

I will describe a geometric derivation of the maximum principle for ellliptic partial differential equations which is particulary applicable to viscosity solutions. By slightly modifying this approach I will recover results previously proved by Yifeng Yu on the gradient of C^2 infinity harmonic functions. (Received August 28, 2015)