

The Trivial Notions Seminar  
Proudly Announces

Maximum Principle for Second Order Fully  
Nonlinear Elliptic Equations

A talk by  
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**Abstract**

The theory of linear or quasi-linear elliptic PDEs has been established for almost a century. However, the development of the theory for fully nonlinear PDEs is relatively new and difficult. In 1980, L. Evans defined an important type of solutions of fully nonlinear equations which is called viscosity solutions. This new type of solutions was soon studied by M. Crandall, Pierre-Louis Lions and L. Caffarelli and had fertile results.

In this talk, I will state the definition of viscosity solutions and show you some comparison theorems and maximum principle of these solutions.

Thursday November 29<sup>th</sup>, at 1:30 pm  
Science Center 507