

**SEMINAR**  
**CENTER FOR APPLIED MATHEMATICS AND SCIENCE**  
**DEPARTMENT OF MATHEMATICS**  
**UNIVERSITY OF WEST GEORGIA**

**1:00 PM, WEDNESDAY, NOVEMBER 7, 2012, BOYD 304**

**Speaker: Dr. Amin Boumenir, Department of Mathematics, UWG**

**Title: Blow up of series solutions on the half line**

**Abstract:** We prove the convergence of series solutions of a semilinear reaction diffusion equation with a quadratic nonlinearity on the half line. We construct a positive solution that blows up in finite time. The algorithm employs algebraic operations only, which can be used to approximate and extend these solutions beyond blow up.

All are welcome.