

Meeting: 1002, Pittsburgh, Pennsylvania, SS 4A, Special Session on Partial Differential Equations and Applications

1002-35-80 **Tao Luo*** (t148@georgetown.edu), Department of Mathematics, Georgetown University,
Washington, DC 20057-1233. *Discontinuous Solutions for Some Hyperbolic Systems with
Relaxation.*

In this talk, I will present some results on the global structure and asymptotic behavior of the discontinuous solutions for some hyperbolic systems with relaxation including flood wave equations. These results are obtained by solving free boundary problems or using a modified Glimm scheme.

This talk is based on the joint work with Tong Yang, Haitao Fan and Roberto Natalini. (Received September 01, 2004)