

**Meeting:** 1003, Atlanta, Georgia, SS 31A, AMS-SIAM Special Session on Integrable Systems and Special Functions, I

1003-37-842      **Xing-Biao Hu\*** ([hxb@lsec.cc.ac.cn](mailto:hxb@lsec.cc.ac.cn)), Institute of Computational Math., AMSS, Chinese Academy of Sciences, PO Box 2719, 100080 Beijing, Peoples Rep of China. *Hirota's bilinear method, Pfaffians and their applications in soliton equations.*

Hirota's bilinear method and Pfaffians have become two powerful tools in soliton theory. In the talk, some basic results on Hirota's bilinear method and Pfaffians are briefly reviewed. Some recent results are reported on these topics. Several examples are given to illustrate applications of Hirota's bilinear method and Pfaffians to soliton equations. (Received September 30, 2004)