

Meeting: 999, Nashville, Tennessee, SS 14A, Special Session on Graph Theory and Matroid Theory

999-05-134 **yue Nick zhao*** (yzhao@pegasus.cc.ucf.edu), Department of Mathematics, University of
Central Florida, Orlando, FL 32816. *On the edge reconstruction conjecture.*

Reconstruction conjectures are regarded as one of the difficult conjectures in graph theory. In this talk, I will focus on the edge reconstruction conjecture that was proposed in 1964 by Harary and present the progress towards this conjecture. I will show how to apply the discharging method, which was used to solve the four-color problem, to the edge reconstruction conjecture. (Received August 19, 2004)