## On the Edge Reconstruction Conjecture

YUE ZHAO

Department of Mathematics University of Central Florida yzhao@pegasus.cc.ucf.edu

**Abstract.** Reconstruction conjectures are regarded as one of the hardest conjectures in graph theory. In this talk, I will focus on the edge reconstruction conjecture which was proposed in 1964 by Harary and present the progress towards solving 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.