TEMPLE UNIVERSITY
Department of Mathematics

Applied Mathematics and Scientific Computing Seminar

Wednesday, 1 October 2014, 4:00 p.m.
Room 617 Wachman Hall

(refreshments and social at 3:45 p.m)

Convergence of Nonstationary Iterative Methods for Solving Singular Linear Equations with Index One

by Jieyong Zhou
Shanghai University of Finance and Economics

Abstract. We study nonstationary iterative schemes for solving consistent singular linear system with index one. We utilize the group inverse to present a sufficient condition for the convergence of the iterative methods. This work extends the known results of stationary iterative scheme. Lastly, we give a sufficient condition for two-stage iterative algorithms.