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Radu Balan* (rvbalan@math.umd.edu), Department of Mathematics, University of Maryland, College Park, MD 20742. *The Iterative and Regularized Least Squares (IRLS) algorithm for phase retrieval*. Preliminary report.

In this talk we present the motivation and convergence analysis of the Iterative Regularized Least Squares (IRLS) algorithm for the phase retrieval problem. We also look at simulations and numerical results. This is a joint work with Naveed Haghani (UMD). (Received February 23, 2016)