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Albert Fannjiang* (fannjiang@math.ucdavis.edu) and **Pengwen Chen.** *Fixed Point Algorithms for Phase Retrieval.*

We discuss the convergence properties of a general class of fixed point algorithms for phase retrieval and ptychography. In particular, we present the local geometric convergence theorem for algorithms related to the classical Douglas-Rachford algorithm and demonstrate the global nature of convergence in practice. (Received August 23, 2016)