1108-42-53   **Alexander M. Powell*** (`alexander.m.powell@vanderbilt.edu`) and **Xuemei Chen** (`chenxuem@missouri.edu`). *Randomized subspace actions for fusion frames.*

We investigate a version of the randomized Kaczmarz algorithm for recovering a signal from a collection of projection-valued fusion-frame measurements. We prove error bounds on the rates of almost sure convergence for this algorithm, and address the question of which probability distributions on a randomized fusion frame lead to fast convergence. (Received December 16, 2014)