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**Alexander M Powell\*** ([alexander.m.powell@vanderbilt.edu](mailto:alexander.m.powell@vanderbilt.edu)) and **Xuemei Chen**. *Error moments and optimal sampling distributions for the randomized Kaczmarz algorithm.*

The randomized Kaczmarz algorithm is a simple iterative method for recovering a signal from a collection of linear measurements. We analyze error moments of the Kaczmarz algorithm when linear measurements are made using a random frame or random fusion frame, and we address the question of finding optimal sampling distributions. (Received September 16, 2016)