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Xuemei Chen* (xchen@nmsu.edu) and **Jing Qin**. *Regularized Random Kaczmarz Algorithm*. Preliminary report.

In this talk, we will provide theoretical guarantees for the convergence of a Kaczmarz-type algorithm that minimizes a strongly convex function with linear constraints. Such model can be utilized for recovery of signals (vectors), images (matrices), and tensors, and have applications including image deblurring and low-rank tensor recovery. This is joint work with Jing Qin. (Received September 17, 2019)