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Carmeliza Navasca* (cnavasca@gmail.com), Birmingham, AL. *The regularization of the alternating least squares for low rank tensor approximation.*

In this talk, we will discuss the role of the alternating least squares (ALS) and its variants in low rank tensor decomposition. Moreover, we will describe some recent results on the convergence based on the Kurdyka-Łojasiewicz inequality and the acceleration of the ALS algorithm. Finally, we will show some numerical experiments which verify the local convergence rate and compare various algorithms. (Received September 18, 2016)