1117-05-419 **Alexander Berkovich*** (alexb@ufl.edu), Mathematics Department, University of Florida, 358 Little Hall, Gainesville, FL. *On partitions with a fixed number of odd and even-indexed odd parts.*

This talk is about partitions with fixed number of odd and even-indexed odd parts. I show how to use these partitions to generalize recent results of C. Savage and A. Sills. Moreover, I discuss explicit formulas for generating functions for partitions with bounds on the largest part, the number of parts and with a fixed value of BG-rank or with a fixed value of alternating sum of parts.In addition I provide combinatorial interpretation of the Berkovich-Warnaar identity for Rogers-Szego polynomials. This talk is based on joint work with Ali Uncu. (Received January 18, 2016)