1147-51-641    **Gabriele Di Cerbo\*** (gdi@math.princeton.edu), Princeton, NJ. *Newton-Okounkov bodies for pseudo-effective (1,1) classes on Kahler manifolds.*

A Newton-Okounkov body is a convex body in Euclidean space associated to a pseudo-effective (1,1) class. The convex geometry of a Newton-Okounkov body encodes information about the geometry of the manifold and the (1,1) class. We will describe how to contract Newton-Okounkov bodies, some of their known properties and their application to geometry. If time permits, I will discuss some open problems in the subject. (Received January 27, 2019)