Analysis Seminar Stockholm University 2017-02-15

Speaker: **Elizabeth Wulcan**, Göteborg.

Title: **Generalized Monge-Ampère operators.**

Abstract: The complex Monge-Ampère operator is a useful tool in, e.g., analytic intersection theory, complex dynamics and Khler geometry. A classical result by Bedford-Taylor asserts that if u is a bounded plurisubharmonic function on an n-dimensional complex manifold, the Monge-Ampère $MA(u) = (dd^c u)^n$ is a welldefined positive closed current that can be obtained, e.g., as a limit of the Monge-Ampère of a sequence of smooth plurisubharmonic functions decreasing to u. This result has later been extended to the case when the unbounded locus of u has dimension zero.

I will discuss a generalization of this to the case when the unbounded locus of u is large, but u has analytic singularities; this is based on a joint work with Mats Andersson.