Monday's Nonstandard Seminar 17

14:00

Author: Erik Lindgren (Uppsala University)

Title: **The streamlines of infinity-harmonic potentials**

Abstract: In this talk, I will discuss certain solutions of the infinity Laplace equation in planar convex rings. Focus will be on their streamlines. It turns out that their ascending streamlines are unique while the descending ones may bifurcate. The points where streamlines can meet are characterized: they lie on certain curves. The gradient has constant norm along streamlines outside the set of meeting points. If time permits I will discuss the solution in some explicit examples more in detail.

The talk is based on joint work with Peter Lindqvist (NTNU, Trondheim).