Analysis Seminar

Title: Synnatzschke's Theorem for Polynomials

Speaker: Nina Snigireva

Date: Tue 5th November 2019 at 3:00PM

Location: Seminar Room SCN 1.25

Abstract: For a regular linear operator on a Banach lattice, Synnatzschke's Theorem addresses the question of when the operation of absolute value commutes with transposition. In this talk we will consider a non-linear version of Synnatzschke's Theorem. Namely, we will show that for a regular polynomial on a Banach lattice, under certain conditions, absolute value commutes with the Aron-Berner extension. This will also allow us to determine when the regular norm for polynomials is preserved by the Aron-Berner extension. (This is joint work with C. Boyd and R. Ryan)