Taylor and Monomial Convergence

with R. Ryan & N. Snigireva

When working with a holomorphic function on a Banach space with an unconditional basis we can consider both its Taylor series $\sum_{m=1} P_m$ and its monomial expansion $\sum_{m\in\mathbb{N}^{(\mathbb{N})}} \alpha_m(z-a)^m$ about a point a. In this talk we will show, that by extending the definition of homogeneous Bohr radius of Defant, García and Maestre to Banach lattices, it is possible to uncover the relationship between these two forms of convergence and their respective radii of convergence.

This is joint work with R. Ryan and N. Snigireva.