

Title: On spectral perturbation results of compact self-adjoint operators over a Hilbert-like ultrametric space.

Abstract: In this presentation I will discuss a relation between sequences of finite-rank operators T_n converging to compact self-adjoint operators $T : C_0 \rightarrow C_0$ and sequences of eigenvalues λ_n of T_n converging to approximate eigenvalues of T . Here, C_0 stands for the space of null sequences over the Complex Levi-Civita field \mathcal{C} . Some results in Spectral Perturbation Theory will be presented.