Homomorphisms between uniform algebras of holomorphic functions, a look through the spectrum Joaquín Camilo Singer Universidad de Buenos Aires & CONICET

Let X and Y be Banach spaces with respective unit balls B_X and B_Y . With the aim of studying the homomorphisms between the uniform algebras $\mathscr{H}^{\infty}(B_X)$ and $\mathscr{H}^{\infty}(B_Y)$ not as individuals but as a whole we consider the generalized spectrum $\mathscr{M}_{\infty}(B_X, B_Y)$ as the set of all algebra homomorphisms between $\mathscr{H}^{\infty}(B_X)$ and $\mathscr{H}^{\infty}(B_Y)$ and study the correlations and differences with the usual spectrum in the scalar case. This talk is based on joint work with Verónica Dimant.