The spectrum of the ball algebra of a Banach space

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In this talk we report on recent work done with different authors: Richard Aron, Daniel Carando, Ted Gamelin, Domingo García and Silvia Lasalle, on the study of some properties of the set of homomorphisms of the Banach algebra $A_u(B_X)$ of complex-valued functions defined on B_X, the open unit ball of a complex Banach space X that are analytic and uniformly continuous on that ball. We consider the case when X is a Banach space with an unconditional shrinking basis. But we will concentrate in properties of the ball algebra of some classical Banach spaces as c_0, ℓ_1 or ℓ_2.

References

[1] R. M. Aron, D. Carando, T. Gamelin, S. Lassalle and M. Maestre, *Cluster values of analytic functions on a Banach space*, Math. Annalen, 2012, 353 n.2, (2012) 293–303.

[2] R. M. Aron, D. Carando, S. Lassalle and M. Maestre, *Cluster values of holomorphic functions of bounded type*, to appear in Trans. Amer. Math. Soc.

[3] R. M. Aron, D. García and M. Maestre, *Embedding disks in the ball algebra of a Banach space*, preprint.