THE ALGEBRA OF THE BALL

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On this talk we will survey on the infinite dimensional counterpart of the algebra of the disk $A(\mathbb{D})$ of all complex functions continuous on the closed unit disk $\mathbb{D}$ and holomorphic in its interior. It is a kind of crossover of complex analysis and Banach theory. On the one hand we will discuss the size and structure of the maximal ideal space of the algebra of the ball of some classical Banach spaces as c_0, ℓ_1 and ℓ_2. On the other, we will survey on properties of interest in Banach spaces as Daugavet property, numerical radius and the Schur property.

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