

1119-03-66

Martino Lupini* (lupini@caltech.edu), 1200 E. California Blvd, MC 253-37, Pasadena, CA 91125. *The Lusky simplex.*

It is a classical result of Lindenstrauss, Olsen, and Sternfeld that the Poulsen simplex is the unique metrizable Choquet simplex with dense extreme boundary, it contains any metrizable Choquet simplex as a closed face, and any affine homeomorphism between its closed faces extends to an automorphism. I will explain how the Lusky simplex—i.e. the unit ball of the dual of the Gurarij Banach space—satisfies analogous uniqueness, universality, and homogeneity properties within the class of unit balls of duals of separable Lindenstrauss spaces. I will also present a new characterization and canonical construction of the Gurarij space using the theory of ternary rings of operators. Analogous results hold in the noncommutative setting for the Gurarij operator space introduced by Oikhberg. (Received February 05, 2016)