

1083-46-168

Alexander A Katz* (katza@stjohns.edu), St. John's University, St. John's College, Dep. of Math & CS, 300 Howard Ave., DaSilva AC 314, Staten Island, NY 10301. *On real KC*-algebras.*

We introduce real KC*-algebras as Banach-Kantorovich spaces which are at the same time real symmetric *-algebra with sub-multiplicative and C*-regular vector norms. Among other results we show that a decent of the real C*-algebra in a Boolean-valued universe is a real KC*-algebra. Inversely, we show that for each real KC*-algebra A there exists a Boolean-valued universe and an object in it such that its decent is real algebraically *-isomorphic and isometric to A. (Received August 28, 2012)