

**Meeting:** 1003, Atlanta, Georgia, SS 25A, AMS Special Session on Complex and Functional Analysis, I

1003-46-1420      **Alexander A. Katz\*** ([katza@stjohns.edu](mailto:katza@stjohns.edu)), St. John's University, Dep. of Math & CS, 300 Howard Ave., DaSilva Hall R335, Staten Island, NY 10301. *Real Partially Ordered Monotone Complete \*-Algebras and their Representations.*

Real analogues of Complex  $O^*$ -algebras (of Sarimsakov and Goldstein) are discussed. Their connections with  $O^*$ -algebras and OJ-algebras (of Auyupov) are investigated. Representation theorems are given in the case the subalgebra of bounded elements of a real  $O^*$ -algebra is a real von Neumann algebra. (Received October 06, 2004)