1056-46-1032 Alexander A. Katz (katza@stjohns.edu), St. John's University, Dep. of Math & CS, 300 Howard Ave., DaSilva 314, Staten Island, NY 10301, Roman Kushnir (kushnir_roman@yahoo.com), University of South Africa, Department of Mathematical Sciences, P.O.Box 392, Pretoria, 0003, and Mark Ustayev* (mark.uuuu@gmail.com), University of South Africa, Department of Mathematical Sciences, P.O.Box 392, Pretoria, 0003. On real, Jordan and Lie structures in locally W*-algebras.

We discuss real *-, Jordan and Lie subalgebras of topological *-algebras which are projective limits of projective families of complex W*-algebras. Various abstract characterizations of these algebras are studied and various theorems on their representations are obtained. (Received September 22, 2009)