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Alexander A Katz* (katza@stjohns.edu), Dep. of Math & CS, St. John's College of LAS, St. John's University, 300 Howard Ave., DaSilva Academic Center 314, Staten Island, NY 10301. *On locally Kaplansky algebras and abstract characterization of locally W^* -algebras.*

We introduce and study basic properties of locally Kaplansky algebras as Baer locally C^* -algebras, obtain for them Arens-Michael decomposition theorem, and give an abstract characterization of locally W^* -algebras among locally Kaplansky algebras. (Received August 22, 2007)