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Dep. of Math&CS, 300 Howard Ave., DaSilva AC 314, Staten Island, NY 10301. *On locally  
JB\*-algebras.*

We introduce locally JB\*-algebras as complex locally convex topological Jordan \*-algebras whose topology is defined by a separating saturated family of submultiplicative regular seminorms. We first prove that a complex locally convex Jordan \*-algebra is a locally JB\*-algebra iff it is topologically Jordan \*-isomorphic to a projective limit of a projective family of JB\*-algebras. Then we show that a selfadjoint part of each locally JB\*-algebra is a locally JB-algebra of Katz and Friedman, and that a complexification of each locally JB-algebra can be endowed with a topology under which it becomes a locally JB\*-algebra. As a corollary we get that: a). each maximal abelian Jordan \*-subalgebra and the center of each locally JB\*-algebra is again a locally JB\*-algebra; b). a bounded part of each locally JB\*-algebra is a dense JB\*-subalgebra. (Received September 21, 2011)