ON LOCALLY PSEUDOCONVEX SQUARE ALGEBRAS

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Abstract

Let $A$ be an algebra over the field of complex numbers with a (Hausdorff) topology given by a family $\mathcal{Q} = \{q_\lambda | \lambda \in \Lambda \}$ of square preserving $r_\lambda$-homogeneous seminorms ($r_\lambda \in (0,1]$). We shall show that $(A, T(\mathcal{Q}))$ is a locally m-convex algebra. Furthermore we shall show that $A$ is commutative.