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On Locally pre-C*-Algebra Structures in Locally m-Convex H*-Algebras

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Abstract: We endow any locally m-convex H*-algebra $\left(E,\tau \right)$ with a locally pre-C*-topology weaker than τ. Examples and applications are provided.

Key Words: Locally pre- C*-algebra, locally m-convex H*-algebra, Q-algebra, positive semi-definite inner product.