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Equicontinuity of power maps in locally pseudo-convex algebras

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Abstract: We show that, in any unitary (commutative or not) Baire locally pseudo-convex algebra with a continuous product, the power maps are equicontinuous at zero if all entire functions operate. We obtain the same conclusion if every element is bounded. An immediate consequence is a result of A. Arosio on commutative and complete metrizable locally convex algebras.

Keywords: locally pseudo-convex algebra, continuous product, m - p -convexity, Baire space, power maps

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