
Radius of analyticity of a power series on real Banach spaces

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Let F be a power series centered at the origin in a *real* Banach space with radius of uniform convergence ρ . We show that F is analytic in the open ball B of radius $\rho/\sqrt{2}$, and furthermore, the Taylor series of F about any point $a \in B$ converges uniformly within every closed ball centered at a contained in B .

Joint work with Marios K. Papadiamantis.