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43210. *Spectral theory on Banach spaces.*

We consider a compact linear map T acting between Banach spaces both of which are uniformly convex and uniformly smooth; it is supposed that T has trivial kernel and range dense in the target space. We will try to find conditions under which the action of T is given by a series. This provides a Banach-space version of the well-known Hilbert-space result of E. Schmidt and leads to study of non-linear differential equations (like p -Laplacian). (Received September 06, 2016)