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Quasi-Differentiability and Applications in Locally Bounded Spaces

We introduce and study a new concept of differentiability, which we call "Quasi differentiability", of mappings f between locally bounded spaces. This concept has wide applications in different branches of Mathematics such as Functional Analysis and Complex Analysis. As a consequence we obtained a new version of the Lagrange Mean-Value Theorem and Fundamental Theorem of Calculus in locally bounded spaces.