Generalized Differentiability

A. Ranjbar-Motlagh

Department of Mathematical Science Sharif University of Technology Tehran, Iran

In this talk, we generalize the concept of Frechet differentiability for maps on Banach spaces. This generalized differentiability definition is similar to the weak derivative. In particular, the Sobolev functions are differentiable in this definition. We show that a Rademacher type differentiability theorem is meaningful and valid in such context.