

Department of Mathematical Sciences

Fall 2019

Colloquium Series

October 18, 2019 at 3pm in Bell Hall 143

Dr. M. Amine Khamsi

The University of Texas at El Paso

Caristi Fixed Point Theorem Revisited

In this talk, we will go over the famous Caristi fixed point theorem. We will start by setting the stage of its inception. Then we will discuss the connection between this theorem and Ekeland Variational Principle. The key in this connection is the Bronsted partial order. A close investigation of this order shows that both Caristi fixed point theorem and Ekeland variational Principle assumptions are not optimal. We will finish our talk by discussing the Kirk's problem related to Caristi fixed point theorem.

For further information, please contact
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