Fall 2016
Colloquium Series
Friday, November 18, 2016 at 3pm in Bell Hall 143

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Fixed Point Theorems for Inward Maps

I want to talk about some inward extensions of known theorems of fixed point. In these theorems we consider inward maps, that is, maps which can take values out of their domains. In this way, we will show different inward extensions of the Banach and Schauder fixed point theorems. We will see two tools with which we can prove the inward theorems, namely, Caristi's fixed point theorem and the KKM principle.