

FELIX KLEIN SEMINAR

Speaker: Marcos Alexandrino

University of Sao Paulo

Date: Thursday, January 23, 2020

Time: 2:00 PM

Location: 258 Hurley Hall



Lecture Title:

**On the Mean curvature flow of Singular Riemannian foliations:
Non compact cases**

Abstract

In this talk I will discuss the mean curvature flow (MCF) of a regular leaf of a closed generalized isoparametric foliation as initial datum, generalizing previous results of Marco Radeschi and of myself. As we will see, under bounded curvature conditions, any finite time singularity is a singular leaf, and the singularity is of type I. I will also discuss the existence of basins of attraction, how cylinder structures can affect convergence of basic MCF of immersed submanifolds and will make a few remarks on MCF of non-closed leaves of generalized isoparametric foliation. This talk will be based on a joint work with Leonardo Cavenaghi and Icaro Gonçalves, see <https://proxy.qualtrics.com/proxy/?url=https%3A%2F%2Farxiv.org%2Fabs%2F1909.04201&token=WmeSE7GH66S4PdUQ6CegB9IY0t%2FyTOwSUhHPB6JXUQs%3D> (preprint 2019).