

WORKSHOP ON SUBMANIFOLD THEORY AND GEOMETRIC ANALYSIS

UFSCAR, SÃO CARLOS, BRAZIL, AUGUST 05 – 09, 2019

FRIDAY- 11:10h - 11:50h -AUDITÓRIO DO DM

Abigail Folha

(UFF, Brazil)

Entire H -graph in $\mathbb{H} \times \mathbb{R}$

ABSTRACT. We give necessary and sufficient conditions to the existence of graphs defined over unbounded domains having constant mean curvature $0 < H < 1/2$ and infinite boundary values in $\mathbb{H} \times \mathbb{R}$. Using the existence of such graphs we construct entire H -graphs in $\mathbb{H} \times \mathbb{R}$ that are parabolic and not invariant by one parameter groups of isometries of $\mathbb{H} \times \mathbb{R}$. Their asymptotic boundaries are $(\partial_\infty \mathbb{H}^2) \times \mathbb{R}$; they are dense at infinity.

Support:



Organizers:

