



Im

Oberseminar Partielle Differentialgleichungen

gibt es am

Donnerstag, dem 01. Juni 2017,

einen Vortrag von Herrn

Dr. Giuseppe Pipoli

(Université Grenoble Alpes)

“Inverse mean curvature flow in complex hyperbolic space ”

Beginn: **15.15 Uhr**

Raum: **F426**

Interessenten sind herzlich willkommen!

R. Denk, R. Racke, O. Schnürer

Abstract:We consider the evolution by inverse mean curvature flow of a closed, mean convex and star-shaped hypersurface in the complex hyperbolic space. We prove that the flow is defined for any positive time, the evolving hypersurface stays star-shaped and mean convex. Moreover the induced metric converges, after rescaling, to a conformal multiple of the standard sub-Riemannian metric on the sphere. Finally we show that there exists a family of examples such that the Webster curvature of this sub-Riemannian limit is not constant.

(invited by Prof. Dr. Oliver Schnürer)