Department of Mathematics, BGU

Colloquium

On *Tuesday, June ,13 2017*

At *14:30 − 15:30*

In *Math 101-*

Klaus Künnemann (Universität Regensburg (

will talk about

The Calabi-Yau problem in archimedean and non-archimedean geometry

Abstract: We describe the Calabi-Yau problem on complex manfiolds and its analog in non-archimedean geometry. On complex manfiolds the Calabi-Yau problem asks locally for solutions of a PDE of Monge-Ampère type. The complex Calabi-Yau problem was posed by Calabi in 1954 and solved by Yau in .1978 After a presentation of the complex case we give a brief introduction to non-archimedean geometry and report on the recent progress in the non-archimedean case.