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Im Rahmen der

## AG Komplexe Analysis

laden wir zu folgendem Vortrag ein:

**On smoothing of bounded plurisubharmonic functions.**

**(Dr. Tobias Harz, POSTECH, Korea)**

am **Dienstag, den 10.01.2017, um 14 Uhr c.t. in Raum G.15.20.**

**Abstract:** I will talk about work in progress concerning the smoothing of bounded (from above) plurisubharmonic functions on unbounded domains in  $\mathbb{C}^n$ ,  $n \geq 2$ . In particular, I will present the following result.

There exist a pseudoconvex domain  $\Omega \subset \mathbb{C}^2$  and a nonempty open set  $U \subset \Omega$  such that the following assertions hold true:

1. There exists a function  $\varphi \in \mathcal{PSH}(\Omega) \cap \mathcal{C}^0(\Omega)$  such that  $\varphi < 0$  on  $\Omega$  and  $\varphi$  is strictly plurisubharmonic on  $U$ .
2. Every function  $\varphi \in \mathcal{PSH}(\Omega) \cap \mathcal{C}^1(\Omega)$  such that  $\varphi < 0$  on  $\Omega$  is constant on  $U$ .

Alle Interessenten sind herzlich eingeladen!

gez. Prof. N. Shcherbina