数論セミナー

2022 年 5 月 27 日 金曜日 16:40- Zoom 開催: Hyblid 予定

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タイトル: Hyperbolicity and J-stability in Non-archimedean Dynamics

アブストラクト:
In [L19]，the author proved J-stability theorem for expanding rational functions in nonarchimedean settings as an analogue of complex J-stability theorem given by Mañé-Sad-Sullivan. In [BL22]，the result was extended in the sense that not only it holds in the Berkovich settings but also expanding condition can be replaced by some strictly weaker condition. We also proved the conjugacy defined on the Berkovich Julia set satisfies its natural properties.
In this talk，we will introduce the main result of [BL22] and see some examples satisfying our new condition but not uniformly hyperbolic condition. This talk is based on the joint work with Professor Robert L. Benedetto (Amherst College).

[L19]: Junghun Lee，J-stability of expanding rational maps in non-Archimedean dynamics，Ergodic Theory and Dynamical Systems 39，4，1002--1019，2019.
[BL22]: Robert L. Benedetto and Junghun Lee，J-Stability in non-archimedean dynamics，Advances in Mathematics，Vol. 397，No. 5，1--33，Elsevier，2022.

（世話人：秋山茂樹）