ID de Contribution: 22 Type: Non spécifié

## Rescaling limit of quadratic rational maps and a search for Berkovich spider

vendredi 13 juin 2025 16:15 (50 minutes)

When a family of rational maps degenerates, certain parametrized coordinate changes may give rise to a non-trivial return map. J. Kiwi studied such scaling limits for quadratic rational maps and M. Arfeux defined trees of spheres"for the degeneration. We will discuss a converse problem which means a construction of degeneration family from a given data, and its relation to the Berkovich space of the extension of the field of Laurent series. This can be considered as aspider algorithm"in the Berkovich space.

This is a unfinished work in progress with Arfeux and Kiwi, and some work-out examples with E. Hironaka related to  $Per_n(0)$  and Rohini Ramadas.

Orateur: SHISHIKURA, Mitsuhiro