

An Inter-universal Teichmüller theory workshop International Center for Next-generation Geometry of RIMS



Arithmetic & Homotopic Galois Theory A France-Japan InternationalResearch Network



March 17 ~ 20, 2025

Hybrid - Zoom & RIMS Kyoto Japan

Inter-universal Teichmüller Theory Summit 2025

Y. Hoshi - RIMS Kyoto, JP • S. Mochizuki - RIMS Kyoto, JP • B. Collas - RIMS Kyoto, JP • E. Lepage - IMJ-PRG, France

Speakers Benjamin Collas

Yuichiro Hoshi Jeffrey Lagarias* Arata Minamide Shinichi Mochizuki

Kummer-detachment via Jog-Kummer correspondence

radial repres

ce | with O-link Procession of additive

compatility

Core

Comparison via - holomorphic hulls, - log-Kummer correspondence, - log-volume



Since its announcement in 2012, Inter-universal Teichmüller theory, now well into its second decade, has developed into an important branch of anabelian geometry, with numerous interconnections to *diophantine geometry, analytic number theory, and anabelian arithmetic geometry*. This workshop will focus not only on the exposition of the abundant intercon-

nections between IUT and such *classical topics* as the functional equation of the theta function, analytic continuation, and the theory of crystals, but also on exciting new research developments concerning the relationship between IUT and *Galois-Teichmüller theory* and the *anabelian Section Conjecture*.

