

INTRODUCTION TO INTER-UNIVERSAL TEICHMÜLLER THEORY

YUICHIRO HOSHI

Contents

0. Introduction
1. Cyclotomes
2. Cyclotomic Rigidity for Frobenioids
3. Anabelian Geometry in Inter-universal Teichmüller Theory
4. On an Approach to a Diophantine Result via Links
5. Coric Objects
6. Coricity of Local Mono-analytic Objects
7. Multiradial Algorithms
8. Log-shells
9. Log-links
10. Mild Indeterminacies
11. Passage to Functions
12. A Rough Statement of the Main Theorem
13. Various Coverings and Theta Functions
14. Mono-theta Environments
15. Rigidity Properties of Mono-theta Environments
16. Multiradial Representations of Theta Functions
17. Initial Θ -data
18. Label Classes of Cusps
19. A Global Étale Setting Related to Theta Functions
20. Additive Hodge Theaters
21. A Global Étale Setting Related to Number Fields
22. Global Frobenioids
23. Θ -Hodge Theaters
24. The Kummer Theory Related to Number Fields
25. Multiplicative Hodge Theaters
26. Hodge Theaters and Log-links
27. Summary