

EXPOSITIONS OF “THE ÉTALE THETA FUNCTION AND ITS FROBENIOID-THEORETIC MANIFESTATIONS” IN THE CONTEXT OF INTER-UNIVERSAL TEICHMÜLLER THEORY

SHINICHI MOCHIZUKI

April 2015

Supplementary expositions of the theory developed in [EtTh] in the context of inter-universal Teichmüller theory may be found in the following portions of [the most recently updated versions of] the following papers on inter-universal Teichmüller theory:

[IUTchII]:

- the Introduction;
- Definition 1.1;
- Propositions 1.2, 1.3, 1.4, 1.5, 1.6;
- Remarks 1.1.1, 3.6.2, 3.6.3, 3.6.4, 3.6.5;

[IUTchIII]:

- Remarks 2.1.1, 2.1.2, 2.2.1, 2.2.2, 2.3.3, 2.3.4.

Of these various supplementary expositions, perhaps [IUTchIII], Remark 2.3.4, is one natural place to begin.

Bibliography

- [EtTh] S. Mochizuki, The Étale Theta Function and its Frobenioid-theoretic Manifestations, *Publ. Res. Inst. Math. Sci.* **45** (2009), pp. 227-349.
- [IUTchII] S. Mochizuki, *Inter-universal Teichmüller Theory II: Hodge-Arakelov-theoretic Evaluation*, preprint.
- [IUTchIII] S. Mochizuki, *Inter-universal Teichmüller Theory III: Canonical Splittings of the Log-theta-lattice*, preprint.