

Why still abc is a conjecture? continued.

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Abstract

This is a question about the IUT theory regarding the operation of defining a mapping from a set to an infinite sequence.

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First of all, you must be familiar with at least the basics of prime stripes ([IUTchI], Definition 4.1, Proposition 4.2), the general theory of Hodge-Theater ([IUTchI]§4-§6), and log-theta lattice([IUTchIII] Definition 1.4).

The subject of doubt is [IUTchIII], Corollary 3.12, p182-p183 and Fig 3.8 [IUTchIII], Remark 3.11.1, about the so-called 1-column (first column) using IPL, SHE, APT, and HIS, and when mapping to log-link in Kummer correspondence, it moves from ${}^{0,0}\mathcal{U}$ to ${}^{0,\circ}\mathcal{U}$, but what this \circ refers to is the column called log-link itself, and it is not clear where it moves to specifically. It looks like a mapping has been made from the set to the entire infinite sequence. This mapping to the log-link is essential, and if we cannot move from the log-link to the log-link symmetrically and then pull back to create a mapping to ${}^{1,0}\mathcal{U}$, the theory will not hold. This "transport" creates uncertainty, and the desired inequality $-|deg\Theta| > -|degq|$ is obtained. The indefinability of this mapping is a flaw in the theory.

References

- [1] [IUTchI] S.Motizuki, Inter-Universal Teichmüller Theory I: Construction of Hodge-Theaters, RIMS Preprint 1756
- [2] [IUTchIII] S.Motizuki, Inter-Universal Teichmüller Theory III: Canonical Splittings of the Log-Theta-Lattice RIMS Preprint 1758