COMMENTS ON THE PAPER “ON THE COMBINATORIAL ANABELIAN GEOMETRY OF NODALLY NONDEGENERATE OUTER REPRESENTATIONS”

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(1.) The phrase “of VA-type” that appears near the beginning of Definition 2.4, (ii), should read “is of VA-type”.

(2.) There is a slight [but substantively irrelevant] inaccuracy in the final sentence of the discussion entitled “Curves” in §0. A corrected version of this final sentence may be given as follows:

Then we shall refer to as the \( n \)-th log configuration space of \( X^{\log} \) the log scheme obtained by pulling back the (1-)morphism \( \mathcal{M}^{\log}_{g,r+n} \to \mathcal{M}^{\log}_{g,r} \) given by forgetting the last \( n \) points via the classifying (1-)morphism \( T^{\log} \to \mathcal{M}^{\log}_{g,r} \) of \( X^{\log} \times_S T \) for some finite étale covering \( T \to S \) [i.e., over which the divisor of cusps splits] of the underlying scheme \( S \) of \( S^{\log} \) and then descending [in the evident fashion] from \( T^{\log} \overset{\text{def}}{=} T \times_S S^{\log} \) to \( S^{\log} \).

(3.) In the statement of Definitions 2.10, (ii); 5.1, (v), there are references to [Mzk4], Example 2.5, concerning the definition of a certain semi-graph of anabelioids of pro-\( \Sigma \) PSC-type determined by a stable log curve over a base \([\overline{s}]\) log scheme whose underlying scheme is the spectrum of a field. At first glance, this may appear to be problematic since the “stable log curve over a base log scheme whose underlying scheme is the spectrum of a field” that appears in [Mzk4], Example 2.5, is subject to the condition that the log structure of this base log scheme be of a certain restricted type. In fact, this is not a problem, however, since the construction of the semi-graph of anabelioids of pro-\( \Sigma \) PSC-type in [Mzk4], Example 2.5, depends only on the pointed stable curve over a field determined by the given log stable curve [i.e., is independent of the log structure on the base log scheme].

(4.) In the second paragraph of the proof of Theorem 4.1, the text “there exists an element \( w'_2 \)” should read “there exists an element \( \tilde{w}'_2 \)”.

(5.) At the end of the second sentence of Definition 5.1, (x), the notation “\( \pi_1(U_{Y_n}^{(\Sigma)}) \)” should read “\( \pi_1(U_{Y_n})^{\Sigma} \).”
(6.) In the proof of Corollary 5.3, the phrase “graphicity of $\alpha$” should read “graphicity of $\alpha|_{\Pi_{2/1}}$” (2 instances); the phrase “compatibility of $\alpha_{2/1}$ with” should read “compatibility of $\alpha|_{\Pi_{2/1}}$ with” (1 instance); the notation $\alpha_{2/1}|_{\Pi_{2/1}^{\text{sub}}}$ should read $\alpha|_{\Pi_{2/1}^{\text{sub}}}$ (3 instances).