

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

SHINICHI MOCHIZUKI

October 2016

(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 $\overline{\mathcal{M}}_{g,r+n}^{\log} \rightarrow \overline{\mathcal{M}}_{g,r}^{\log}$ given by forgetting the last n points via the classifying (1-)morphism $T^{\log} \rightarrow \overline{\mathcal{M}}_{g,r}^{\log}$ of $X^{\log} \times_S T$ for some finite étale covering $T \rightarrow S$ [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 $T^{\log} \stackrel{\text{def}}{=} T \times_S S^{\log}$ 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- Σ PSC-type* determined by a stable log curve over a base [fs] 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- Σ 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 ”.