COMMENTS ON "THE GEOMETRY OF ANABELIOIDS"

Shinichi Mochizuki

May 2022

(1.) In the display of the paragraph immediately following Definition 1.1.10, "$\zeta(j)$" should read "$\zeta(i)$".

(2.) In Proposition 2.1.1, (ii), "$\overline{\mathfrak{Loc}}(X)$" should read "$\overline{\mathfrak{Loc}}(\mathcal{X})$". In Proposition 2.2.2, (ii), "$\overline{\mathfrak{Loc}}_{\mathcal{Q}}(X)$" should read "$\overline{\mathfrak{Loc}}_{\mathcal{Q}}(\mathcal{X})$".

(3.) The equation "$\Xi^V_{\mathcal{X}} = \widetilde{\Xi}^V_{\mathcal{X}} \circ \Phi^V_{\mathcal{X}}$" in the final line of the statement of Theorem 2.4.2 should read "$\widetilde{\Xi}^V_{\mathcal{X}} = \Xi^V_{\mathcal{X}} \circ \Phi^V_{\mathcal{X}}$".

(4.) In Definition 2.3.1, the word "irreducible" should read "connected".

(5.) In Proposition 2.3.5, (i) (respectively, (ii)), it should be assumed that the fundamental group of every connected component of $\mathcal{Q}'$ (respectively, $\mathcal{Q}$) is *countably (topologically) generated* — cf. Definition 2.3.1.

(6.) In Proposition 2.3.5, (vi), it should be assumed that $\mathcal{X}$ is *connected*. Moreover, $\deg_{\mathcal{X}}$ is only defined on (nonempty) *connected objects* of $\mathfrak{Loc}(\mathcal{X})$ and in fact may be extended so as to be defined on (nonempty) *connected objects* of $\overline{\mathfrak{Loc}}(\mathcal{X})$.

(7.) In Proposition 2.3.6, (i) (respectively, (iii)), it should be assumed that $\mathrm{Isog}(G)$ (respectively, A) is *countably (topologically) generated* — cf. Definition 2.3.1.

(8.) In the situation of Proposition 2.3.6, we observe that it is easily verified that the natural inclusion $G \hookrightarrow \mathrm{Isog}(G)$ is *relatively slim*, and hence that $\mathrm{Isog}(G)$ is *slim* whenever it is *profinite* (i.e., as in the situation of Proposition 2.3.6, (i)).