Erratum

Erratum to: “The Hopf algebroids of functions on étale groupoids and their principal Morita equivalence”


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Definition 2.1 in [1] starts with a misprint which makes it difficult to understand. Also, the remark after Definition 2.1 does not explain property (7) in the definition correctly. This does not influence any of the results of the paper.

Page 252 Line 4: “étale Hopf algebroid A …” should read “An étale Hopf algebroid is an algebra A …”

Page 252 Line 14: “…Δ(S(a)) = \[\sum_i S(a'_i) \otimes S(a''_i)\] for any …” should read “…Δ(S(a)) = \[\sum_i S(a'_i) \otimes S(a''_i)\] in A_{A_0} \otimes^{A_0} A = A \otimes (A_0 \otimes A), for any …”

Page 252 Lines 20–27: The last 8 lines of remark (1), starting with “However, the definition …”, should read “Let \(\pi : A \otimes A \rightarrow A_{A_0} \otimes^{A_0} A\) be the quotient projection, where \(A_{A_0} \otimes^{A_0} A = A \otimes (A_0 \otimes A_0)\) denotes the tensor product with respect to both the left and the right actions. In other words, the kernel of \(\pi\) is the subspace of \(A \otimes A\) generated by elements of the form \(a_0 a_0' \otimes a' - a \otimes a_0 a_0' a_0\), for all \(a, a' \in A\) and \(a_0, a_0' \in A_0\). The map \(\pi\) factors through both \(A_{A_0} \otimes A\) and \(A \otimes^{A_0} A\), and property (7) in the definition above can be expressed as \(\pi \circ \Delta \circ S = \pi \circ (S \otimes S) \circ \Delta\). Furthermore, since \(\Delta\) is injective and \(S\) is bijective there exists a unique isomorphism \(\gamma : \Delta A \rightarrow (S \otimes S) \Delta A\) such that

\[\gamma \circ \Delta \circ S = (S \otimes S) \circ \Delta.\]

In our main example below, the space \(\Delta A\) is generated by elements of the form \(a' \otimes a''\) satisfying \(\gamma(a' \otimes a'') = a' \otimes a''\).”

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Page 253 Line 12: “(property (7) in Definition 2.1)” should read “(remark (1))”

References