

Errata in the book “Quandle and topological pairs”

Takefumi Nosaka¹

I give a list of errata in the book “Quandle and topological pairs”. I am terribly sorry that some readers became confused by the errors.

Page and line	Original statement	correct statement
Prop.5.37,Exa.7.18,Appe. A etc	Atroidality	Atoroidality
lemma 8.10	$x^{n\rho}$	This should be explained after Def. 8.11
Prop. A.5	is injective, if	; $x \mapsto e_x$ is injective, if
P.108. 1.1	we can $\text{Inn}(X)$	we can compute $\text{Inn}(X)$
P.108. 1.3	Further, X be	Further, let X be
P.111. Prop. B.12		The statement is incorrect. In fact, there are counter examples.
P.111. Prop. B.15		The statement is incorrect.
P.112. Lemma B.17	$1 - T$ is invertible in X	The map $1 - T : X \rightarrow X$ is surjective.
p.121. Theorem C.7		We must “suppose $(\mathbb{F}_q^\times)^2 = \mathbb{F}_q^\times$ ”.

Errors in the 111-th page

The 111-th page in the book contains many errors. In fact, Propositions B.12 and 15 are incorrect (which is pointed out by Kentaro Yonemura (Kyushu university). I sincerely thank him). Furthermore, the definition of presentations of quandles is not fine. In fact, more explicit and accurate definition is described in Section 8 of the following book;

S. Kamada, “Surface-Knots in 4-Space, An introduction” Springer Monographs in Mathematics. Springer, Singapore, 2017.

¹E-mail address: nosaka@math.titech.ac.jp