Proof reading for "Matrix identities involving multiplication and transposition" by Auinger et al

Location	Type	In the proofs	In the original	Should be
P.1, footnote, line +4	Update	21000	21000	21101
P.1, footnote, line +5	Update	Faculty of Mathematics and Mechanics, Ural State University	Faculty of Mathematics and Mechanics, Ural State University	Institute of Mathematics and Computer Science, Ural Federal University
P.1, footnote, line +6	Update	620083	620083	620000
P.2, line +21	Typo (our fault)	. . . may be a summarized . . .	. . . may be a summarized . . .	. . . may be summarized . . .
P.2, Theorem, line +1	Editor's intervention	None of the following sets of matrix identities admits a finite identity basis:	Each of following sets of matrix identities admits no finite identity basis:	We quite agree with moving the negation into the subject but according to standards of English grammar, when the sense is plural (as indicated by a plural noun or pronoun in the following prepositional phrase—"none of [plural entity]"), "none" is plural. So the phrase should be: None of the following sets of matrix identities admit a finite identity basis:
P.3, line +18	Editor's intervention	. . . then so is u^*.	. . . then so is $(u)^*$.	As in the original (we **do not** accept the change)
P.3, line +20	Editor's intervention	$u \mapsto u^*$.	$u \mapsto (u)^*$.	As in the original (we **do not** accept the change)
P.3, line -3	Typo (our fault)	A variety is is said to be . . .	A variety is is said to be . . .	A variety is said to be . . .
P.7, matrix $M_n(g)$, entry (4,4)	Editor's intervention	$\vdots$ (produced by `\vdots`)	$\ddots$ (produced by `\ddots`)	As in the original (we **do not** accept the change)

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Location	Type	In the proofs	In the original	Should be
P.11, line +5	Editor's intervention	... to $(1, 2, \ldots, r, \ldots, 1, 2, \ldots, r)^t$ where the block $1, 2, \ldots, r$ occurs r times.	... to the transpose of the row $(1, 2, \ldots, r, \ldots, 1, 2, \ldots, r)$ in which the block $1, 2, \ldots, r$ occurs r times.	We **do not** accept the change in the proposed form. The notation $(\ldots)^t$ for the transpose is inconsistent with the notation elsewhere in the paper. We suggest: ... to the transpose of $(1, 2, \ldots, r, \ldots, 1, 2, \ldots, r)$ where the block $1, 2, \ldots, r$ occurs r times.
P.15, lines -20 and -19	Update	We say that b *strictly divides* a and write $a <_{\mathscr{R}} b$ if $a = bs$ for some $s \in S$ but $b \neq a$ and $b \neq at$ for any $t \in S$.	We say that b *strictly divides* a and write $a <_{\mathscr{R}} b$ if $a = bs$ for some $s \in S$ but $b \neq a$ and $b \neq at$ for any $t \in S$.	Remove the whole sentence
P.15, lines -18 and -17	Update	$\mathscr{R}$ is an equivalence relation (known as the *right Green relation* in semigroup theory) and $<_{\mathscr{R}}$ is transitive and anti-reflexive.	$\mathscr{R}$ is an equivalence relation (known as the *right Green relation* in semigroup theory) and $<_{\mathscr{R}}$ is transitive and anti-reflexive.	$\mathscr{R}$ is an equivalence relation (known as the *right Green relation* in semigroup theory). (Remove the part of the sentence after the clause in parentheses.)
P.15, lines -9, -8, and -7	Update	Further let h denote the length of the longest possible chain of the form $s_1 <_{\mathscr{R}} s_2 <_{\mathscr{R}} \cdots <_{\mathscr{R}} s_k$.	Further let h denote the length of the longest possible chain of the form $s_1 <_{\mathscr{R}} s_2 <_{\mathscr{R}} \cdots <_{\mathscr{R}} s_k$.	Remove the whole sentence
P.15, line -6	Update	Set $n = h + 1$; Lemma 7 in [37] shows ...	Set $n = h + 1$; Lemma 7 in [37] shows ...	Set $n = \lvert S \rvert + 1$; Lemma 7 in [37] implies ...
P.18, line +5	Update	... admits an involution ...	... admits an involution ...	... admits a ring involution ...

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Location	Type	In the proofs	In the original	Should be
P.24, line +7	Typo (our fault) + Editor's intervention	$b^{\ell_1}a^{k_1}\cdots b^{\ell_{t-1}}a^{k_{t-1}}b^{k_t}$,	$b^{\ell_1}a^{k_1}\cdots b^{\ell_{t-1}}a^{k_{t-1}}b^{k_t}$	$b^{\ell_1}a^{k_1}\cdots b^{\ell_{t-1}}a^{k_{t-1}}b^{\ell_t}$,
P.29, line +17	Update	the name suggested in `\cite{Kim}`	the name suggested in `\cite{Kim}`	the name suggested in `\cite{Schwarz}`
P.31, Acknowledgements, line −1	Typo (our fault)	. . . grants 10-01-00524.	. . . grants 10-01-00524.	. . . grant 10-01-00524.
P.32, item [27]	Update	`\bibitem{Kim}` Kim, K. H.: The semigroups of Hall relations. Semigroup Forum **9**, 253–260 (1974) Zbl 0292.20061 MR 0376910	`\bibitem{Kim}` Kim, K. H.: The semigroups of Hall relations. Semigroup Forum **9**, 253–260 (1974)	Remove this item
P.33, item [45], line +2	Typo (our fault)	(2006)	(2006)	(2007)
P.33, between items [51] and [52]	Update	Insert new item: `\bibitem{Schwarz}` Schwarz, Š.: The semigroup of fully indecomposable relations and Hall relations. Czechoslovak Math. J. **23**, 151–163 (1973) Zbl 0261.20057 MR 0316612		
P.34, item [55], line +2	Typo	Zbk 1074.20036		Zbl 1074.20036