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

Location	Type	In the proofs	In the original	Should be
Throughout the text	Editor's intervention	non-finitely based	nonfinitely based	As in the proofs (we accept the change)
P.1, Background and Motivation, line +9	Editor's intervention	. . . much attention as well: see, for instance . . .	. . . much attention as well, see, for instance . . .	As in the proofs (we accept the change)
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:	As in the proofs (we accept the change)
P.2, Theorem, lines +2, +4, +6, +9 (4 times)	Editor's intervention	the identities for . . .	the identities of . . .	As in the proofs (we accept the change)
P.3, line +5	Editor's intervention	⟨displayed formula⟩	⟨inline formula⟩	As in the proofs (we accept the change)
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.4, lines 1–2	Editor's intervention	. . . forming direct products and taking unary subsemigroups . . .	. . . forming direct products, taking unary subsemigroups . . .	As in the proofs (we accept the change)
P.4, line −2	Editor's intervention	if $p_{jk} = 0$,	if $p_{jk} = 0$;	As in the proofs (we accept the change)

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Location	**Type**	**In the proofs**	**In the original**	**Should be**
P.5, line +4	Editor's intervention	If the group $\mathcal{G}$ involved	If the involved group $\mathcal{G}$	As in the proofs (we accept the change)
P.5, display (1.1)	Editor's intervention	otherwise,	otherwise;	As in the proofs (we accept the change)
P.5, line +1 after display (1.1)	Editor's intervention	. . . semigroup that will be quite useful is . . .	. . . semigroup that will be quite useful in the sequel is . . .	As in the proofs (we accept the change)
P.5, line −5	Editor's intervention	. . . has dimension $n-1$, whence . . .	. . . has dimension $n-1$ whence . . .	As in the proofs (we accept the change)
P.6, line −16	Editor's intervention	The following easy observation will be useful as it helps . . .	The following easy observation will be useful in the sequel as it helps . . .	As in the proofs (we accept the change)
P.6, line −8	Editor's intervention	$\mathrm{H}(\mathcal{T}) \in \mathsf{var}\,\mathrm{H}(\mathcal{S})$, and so $\mathrm{H}(\mathsf{var}\,\mathcal{S}) \subseteq \mathsf{var}\,\mathrm{H}(\mathcal{S})$.	$\mathrm{H}(\mathcal{T}) \in \mathsf{var}\,\mathrm{H}(\mathcal{S})$. Since this holds for an arbitrary $\mathcal{T} \in \mathsf{var}\,\mathcal{S}$, we conclude that $\mathrm{H}(\mathsf{var}\,\mathcal{S}) \subseteq \mathsf{var}\,\mathrm{H}(\mathcal{S})$.	As in the proofs (we accept the change)
P.7, line +1	Editor's intervention	. . . there exists a group $\mathcal{G} \in \mathbf{V} \setminus \mathrm{H}(\mathbf{V})$	. . . there exists a group $\mathcal{G} \in \mathbf{V}$ for which $\mathcal{G} \notin \mathrm{H}(\mathbf{V})$.	As in the proofs (we accept the change)
P.7, line −10	Editor's intervention	denotes the $n \times n$-matrix	denotes the $n \times n$-matrix of the form	As in the proofs (we accept the change)
P.7, matrix $M_n(g)$, entry (4,4)	Editor's intervention	⋮ (produced by `\vdots`)	⋱ (produced by `\ddots`)	As in the original (we **do not** accept the change)
P.7, line −8	Editor's intervention	(This construction is in a sense a combination of those of [3] and [53].)	(This construction is in a sense a combination of those of the first and the third authors' papers [3] and [53].)	As in the proofs (we accept the change)
P.8, line +6	Overfull	The row of dots is too long		
P.8, line −9	Editor's intervention	As $2k < n$ according to . . .	Using that $2k < n$ according to . . .	As in the proofs (we accept the change)
P.9, line +3	Editor's intervention	For each i with . . .	For each i such that . . .	As in the proofs (we accept the change)
P.10, line +11	Editor's intervention	such that $\mathcal{G} \in \mathbf{V} \setminus \mathrm{P}_d(\mathbf{V})$ . . .	such that $\mathcal{G} \in \mathbf{V}$ but $\mathcal{G} \notin \mathrm{P}_d(\mathbf{V})$ . . .	As in the proofs (we accept the change)

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Location	**Type**	**In the proofs**	**In the original**	**Should be**
P.10, line +18	Editor's intervention	These words have already been used . . .	These words already have been used . . .	As in the proofs (we accept the change)