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

Location	Type	In the proofs	In the original	Should be	
Throughout	Editor's in-	non-finitely based	nonfinitely based	As in the proofs	
the text	tervention			(we accept the change)	
P.1, Back-	Editor's in-	much attention as well:	much attention as well,	As in the proofs	
ground and	tervention	see, for instance	see, for instance	(we accept the change)	
Motivation,					
line +9					
P.1, footnote,	Update	21000	21000	21101	
line +4					
P.1, footnote,	Update	Faculty of Mathematics	Faculty of Mathematics	Institute of Mathematics	
line +5		and Mechanics, Ural State	and Mechanics, Ural State	and Computer Science,	
		University	University	Ural Federal University	
P.1, footnote,	Update	620083	620083	620000	
line +6					
P.2, line +21	Typo (our	may be a summarized	may be a summarized	may be summarized	
	fault)				
P.2, Theorem,	Editor's in-	None of the following sets	Each of following sets of	As in the proofs	
line +1	tervention	of matrix identities admits	matrix identities admits no	(we accept the change)	
		a finite identity basis:	finite identity basis:		
P.2, Theorem,	Editor's in-	the identities for	the identities of	As in the proofs	
lines $+2$, $+4$,	tervention			(we accept the change)	
+6, +9 (4					
times)					
P.3, line +5	Editor's in-	(displayed formula)	(inline formula)	As in the proofs	
	tervention			(we accept the change)	
P.3, line +18	Editor's in-	then so is u^* .	then so is $(u)^*$.	As in the original (we do	
	tervention			not accept the change)	
P.3, line +20	Editor's in-	$u \mapsto u^*$.	$u \mapsto (u)^*$.	As in the original (we do	
	tervention			not accept the change)	
P.3, line -3	Typo (our	A variety is is said to be	A variety is is said to be	A variety is said to be	
	fault)				
P.4, lines 1–2	Editor's in-	forming direct products	forming direct products,	As in the proofs	
	tervention	and taking unary subsemi-	taking unary subsemi-	(we accept the change)	
		groups	groups		
continued on next page					

continued from Location	Type	In the proofs	In the original	Should be	
P.4, line -2	Editor's in-	$if p_{ik} = 0,$	$if p_{jk} = 0;$	As in the proofs	
r.4, iiiie – 2	tervention	$\prod_{i} p_{jk} = 0,$	$n p_{jk} = 0,$	(we accept the change)	
P.5, line +4	Editor's in-	If the group 9 involved	If the involved group 9	As in the proofs	
F.3, IIIIe +4	tervention	If the group 9 involved	if the involved group 9	(we accept the change)	
D5 diamlar	Editor's in-	oth omico	oth america.	As in the proofs	
P.5, display		otherwise,	otherwise;	•	
(1.1)	tervention		that will be	(we accept the change)	
P.5, line +1	Editor's in-	semigroup that will be	semigroup that will be	As in the proofs	
after display	tervention	quite useful is	quite useful in the sequel is	(we accept the change)	
(1.1)					
P.5, line -5	Editor's in-	has dimension $n-1$,	has dimension $n-1$	As in the proofs	
	tervention	whence	whence	(we accept the change)	
P.6, line –16	Editor's in-	The following easy obser-	The following easy obser-	As in the proofs	
	tervention	vation will be useful as it	vation will be useful in the	(we accept the change)	
		helps	sequel as it helps		
P.6, line -8	Editor's in-	$H(\mathfrak{T}) \in var H(S)$, and so	$H(\mathfrak{T}) \in var H(\mathfrak{S})$. Since	As in the proofs	
	tervention	$H(var S) \subseteq var H(S)$.	this holds for an arbitrary	(we accept the change)	
			$\mathfrak{T} \in var S, we conclude$		
			that $H(var S) \subseteq var H(S)$.		
P.7, line +1	Editor's in-	there exists a group $\mathfrak{G} \in$	there exists a group $\mathfrak{G} \in$	As in the proofs	
	tervention	$\mathbf{V} \setminus \mathrm{H}(\mathbf{V})$	V for which $\mathfrak{G} \notin H(\mathbf{V})$.	(we accept the change)	
P.7, line –10	Editor's in-	denotes the $n \times n$ -matrix	denotes the $n \times n$ -matrix of	As in the proofs	
	tervention		the form	(we accept the change)	
P.7, matrix	Editor's in-	:(produced by \vdots)	·. (produced by \ddots)		
·	tervention	. (produced by \vdots)	(produced by \aaocs)	As in the original (we do	
$M_n(g)$, entry	tervention			not accept the change)	
(4,4)	Editor's in-	(This construction is in	(This construction is in	A sing the same of	
P.7, line -8		(This construction is in	(This construction is in	As in the proofs	
	tervention	a sense a combination of	a sense a combination of	(we accept the change)	
		those of [3] and [53].)	those of the first and the		
			third authors' papers [3]		
DO 1' (0 0 11		and [53].)		
P.8, line +6	Overfull	1	The row of dots is too long		
P.8, line -9	Editor's in-	As $2k < n$ according to	Using that $2k < n$ accord-	As in the proofs	
	tervention		ing to	(we accept the change)	
P.9, line +3	Editor's in-	For each <i>i</i> with	For each i such that	As in the proofs	
	tervention			(we accept the change)	
continued on next page					

continued from previous page					
Location	Type	In the proofs	In the original	Should be	
P.10, line +11	Editor's in-	such that $\mathfrak{G} \in \mathbf{V} \setminus \mathrm{P}_d(\mathbf{V})$	such that $\mathfrak{G} \in \mathbf{V}$ but $\mathfrak{G} \notin$	As in the proofs	
	tervention		$P_d(\mathbf{V})$	(we accept the change)	
P.10, line +18	Editor's in-	These words have already	These words already have	As in the proofs	
	tervention	been used	been used	(we accept the change)	
P.10, line -14	Editor's in-	Let x_1, x_2, \ldots be a se-	Let $x_1, x_2, \ldots, x_n, \ldots$ be a	As in the proofs	
	tervention	quence of letters.	sequence of letters.	(we accept the change)	
P.10, line -8	Editor's in-	Aiming at a contradiction,	Arguing by contradiction,	As in the proofs	
	tervention	suppose	suppose	(we accept the change)	
P.11, line +2	Editor's in-	in Fig. 1 (left).	shown in the left hand	As in the proofs	
	tervention		part of Fig. 1	(we accept the change)	
P.11, lines 2–	Editor's in-	All odd-numbered columns	All odd columns	As in the proofs	
3	tervention			(we accept the change)	
P.11, line +4	Editor's in-	All even-numbered	All even columns	As in the proofs	
	tervention	columns		(we accept the change)	
P.11, line +5	Editor's in-	to	to the trans-	We do not accept the	
	tervention	$(1,2,\ldots,r,\ldots,1,2,\ldots,r)^t$	pose of the row	change in the proposed	
		where the block $1, 2, \ldots, r$	$(1,2,\ldots,r,\ldots,1,2,\ldots,r)$	form. The notation $()^t$	
		occurs r times.	in which the block	for the transpose is incon-	
			$1, 2, \ldots, r$ occurs r	sistent with the notation	
			times.	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.11, line +8	Editor's in-	(shown in Fig. 1, right)	(shown in the right hand	As in the proofs	
	tervention		part of Fig. 1)	(we accept the change)	
P.11, line +11	Editor's in-	Let v_t be the word in the $t^{\rm th}$	Let v_t be the word in the $t^{\rm th}$	As in the proofs	
	tervention	row of M_A .	row of the matrix M_A .	(we accept the change)	