CORRIGENDUM TO THE PAPER

“CONDITIONS FOR ELEMENTS TO BE CENTRAL IN A RING”

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An error in [1] has been kindly pointed out to the present authors by Professor Hisao Tominaga. Lemma 4 was misstated and consequently Lemmas 5 and 6 should be changed slightly as follows:

LEMMA 4. *If $y \in \mathcal{J}(R)$ then there exist $p \in z^+$ such that $x^p(xy - yx) = 0 = (xy - yx)x^p$.*

LEMMA 5. *If $y \in R$ satisfies conditions (1) and (2) and if $t \in z^+$ then there exists $s \in z^+$ such that, for $k=1, 2, \dots, t$,*

- (i) $x^s(x^{nk}y - yx^{nk})y^n = 0 = x^s(x^{nk+1}y - yx^{nk+1})y^{n+1}$;
- (ii) $y^m(x^{mk}y - yx^{mk})x^s = 0 = y^{m+1}(x^{mk+1}y - yx^{mk+1})x^s$.

LEMMA 6. *For each $y \in R$, there exist $x, t \in z^+$ such that*

$$x^s(x^t y - y x^t) = 0 = x^s(x^{t+1} y - y x^{t+1}).$$

All of these can be proved by using similar techniques developed in [1].

Reference

- [1] L. O. CHUNG and J. LUH, Conditions for elements to be central in a ring, *Acta Math. Acad. Sci. Hungar.*, **34** (1979), 261–265.

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