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CORRECTION TO

"A NOTE ON AZUMAYA'S THEOREM"

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$e_\alpha\Lambda$ in the seventh line from bottom on Page 158 should be read $e_\alpha r(N)$. To complete the proof of Proposition 1, the following should be added to the end of the proof of Proposition 1.

Nextly we will show that if Λ is a left self cogenerator ring the left socle of Λ contains the right socle of Λ. Let S_l (resp. S_r) denote the left (resp. right) socle of Λ. Let $x\in\Lambda$ such that $x\Lambda$ is a minimal right ideal, and $\mathfrak{l}$ be a maximal right ideal of Λ which contains $l(x)$. Then $\Lambda/\mathfrak{l}$ is isomorphic to some $I_\beta=\Lambda y_\beta$, and we have a homomorphism $\Lambda x\rightarrow\Lambda y_\beta$ which maps x to y_β. Then the same argument as the proof of Lemma 3 shows that $y_\beta\Lambda\subseteq x\Lambda$. Since $x\Lambda$ is minimal, $y_\beta\Lambda=x\Lambda$, and $x=y_\beta z$ for some $z\in\Lambda$. Then Λx is minimal, since it is a homomorphic image of Λy_β which is a minimal left ideal. Hence $x\in S_l$, and we see $S_r\subseteq S_l$.

Since $r(N)\supseteq S_l$, $r(N)\supseteq S_r$. Then Λ is an essential extension of $r(N)$ as right ideal, since Λ is an essential extension of S_r by Lemma 3. Consequently $e_\alpha\Lambda$ is an essential extension of $e_\alpha r(N)$, and we see $e_\alpha\Lambda$ is an essential extension of $x_\alpha\Lambda$.