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ERRATUM: APPLICATIONS OF EPI-RETRACTABLE AND CO-EPI-RETRACTABLE MODULES

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(Communicated by Bernhard Keller)

Proposition 2.11 of [1] holds with the retractable condition on M. Consequently, Corollary 2.12 of [1] holds for any ring R. Hence the statement "Let R be a pli ring" in [1, Corollary 2.12] can be replaced by "Let R be any ring".

Moreover, part (2) of [2, Proposition 3.1] which was used in the proof of [1, Proposition 3.17] is clearly incorrect. To see this, it is enough to get $R = \mathbb{Z}$. Therefore, condition (b) of [1, Proposition 3.17] must be omitted. Hence [1, Proposition 3.17] should be replaced as follows:

Proposition 3.17. Let M be a projective module over a left hereditary ring R. Then the following statements are equivalent:

(a) M is semisimple;

- (b) M is co-epi-retractable;
- (c) In $\sigma[M]$ every injective module is epi-retractable.

Also, [1, Corollary 3.18] is changed as follows:

Corollary 3.18. Let R be a left hereditary ring. Then the following statements are equivalent:

- (a) R is a semisimple ring;
- (b) R is a co-pli ring;
- (c) Every injective R-module is epi-retractable;
- (d) Every R-module is co-epi-retractable.

According to the above corollary, in page 2 of [1], the conditions (b) and (e) should be removed.

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543

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References

- H. Mostafanasab, Applications of epi-retractable and co-epi-retractable modules, Bull. Iranian Math. Soc. 39 (2013), no. 5, 903–917.
- [2] B. M. Pandeya, A. K. Chaturvedi and A. J. Gupta, Applications of epi-retractable modules, Bull. Iranian Math. Soc. 38 (2012), no. 2, 469–477.

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