Corrections to: On Direct Representations of Quasi-injectives and Quasi-projectives

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In [2] we wrote $M^A(M^{(A)})$ for a direct product (sum) of $|A|$ copies of a module M . Then we proceeded to make the *false assertion* that $f \rightarrow g$ where

$$[g(a)](b) = [f(b)](a), \quad a \in A, b \in B$$

defines an isomorphism

$$(M^A)^{(B)} \rightarrow (M^{(B)})^A.$$

Since then we have come to realize that this map is in general, merely monic. This error invalidates the *proofs* given for Theorems 2.3 and 4.2 of that paper. Fortunately, however, the *theorems* themselves are *correct*, as can easily be seen from [3, Corollary 2.2] for the latter, and the remark following that corollary or [5, Proposition 3.1] for the former.

Also, we wish to point out that K. A. BYRD has independently proved a version of Theorem 5.1 of [2] that does not require the $\mathcal{L}$ in condition (c). This can be done with a straightforward application of [4, Proposition 1] and [1, Theorem 5.3].

References

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