

ABSTRACT Salce

I present the results contained in two recent papers related to injective modules:

[B] “*Every module is an inverse limit of injectives*”, by George M. Bergman, to appear on Proc. Amer. Math. Soc.

[GIT] “*On the construction of finitely injective modules*”, by Pedro Guil Asensio, Manuel Izurdiaga and Blas Torrecillas, submitted.

The results in these papers have in common the fact that they are strictly related to two papers of mine. The first one is:

[S1] “*Classi di gruppi abeliani chiuse rispetto alle immagini omomorfe ed ai limiti proiettivi*”, Rend. Sem. Mat. Univ. Padova 49 (1973), 1-7.

Lemma 3 in [S1] shows that the ring of the integers is the intersection of divisible groups; it has a gap corrected in [B], where the original proof of the lemma is extended passing from abelian groups to general modules. The second paper is:

[S2] “*On finitely injective modules and locally pure-injective modules over Prüfer domains*”, Proc. Amer. Math. Soc. 135 (2007) n. 11, 3485-3493.

The main construction of [S2], inspired by an old paper by Hill on p -groups and adapted to modules by Griffith and Zimmermann-Huisgen, is replaced in [GIT] by a more natural technique producing finitely injective modules over non-Noetherian rings which fail to be direct sums of injectives, thus providing a positive answer to a question posed in [S2].