

Year: 2007	Vol.: 70	Fasc.: 3-4
------------	----------	------------

Title: Product closed modules need not be artinian

Author(s): John E. van den Berg

A module M is called *product closed* if every hereditary pretorsion class in $\sigma[M]$ is closed under products in $\sigma[M]$. It is known that if M is product closed, finitely generated, projective in $\sigma[M]$ and is such that every hereditary pretorsion class in $\sigma[M]$ is M -dominated, then M has finite length. In this paper a module M is constructed which is product closed, finitely generated and projective but which is not artinian.

Address:

John E. van den Berg

School of Mathematical Sciences

University of KwaZulu-Natal Pietermaritzburg

Private Bag X01

Scottsville 3209

South Africa

E-mail: vandenber@ukzn.ac.za