

Year: 2007

Vol.: 71

Fasc.: 1-2

Title: On a new generalization of coherent rings

Author(s): Lixin Mao and Nanqing Ding

In this paper, we introduce a new generalization of coherent rings. Let m be a positive integer and d a positive integer or $d = \infty$. A ring R is called a left (m, d) -coherent ring in case every m -presented left R -module N with $pd(N) \leq d$ is $(m + 1)$ -presented. It is shown that there are many similarities between coherent rings and (m, d) -coherent rings. Some applications are also given.

Address:

Lixin Mao
Department of Basic Courses
Nanjing Institute of Technology
Nanjing 211167
China
Department of Mathematics
Nanjing University
Nanjing 210093
China
E-mail: maolx2@hotmail.com

Address:

Nanqing Ding
Department of Mathematics
Nanjing University
Nanjing 210093
China