

On Enochs conjecture

Nanqing Ding

Department of Mathematics, Nanjing University, Nanjing 210093, China

E-mail:nqding@nju.edu.cn

Abstract

In the late 1990s, E. E. Enochs asked whether each covering class of modules is closed under direct limits. This problem is still open in general. In this talk, a brief introduction to Enochs conjecture will be given and some results on this subject will be reviewed and discussed.

Key Words: Covering class; Direct limit; Coherent ring; Absolutely pure module.

2010 Mathematics Subject Classification: 16D10; 16D50; 16P70.