PRIMENESS IN CATEGORY OF MODULES AND CATEGORY OF COMODULES OVER **CORINGS**

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Abstract. We recall the notion of prie modules and use the analogue technique to define prime comodules and corings. Moreover, the related properties are of interest. We investigate the relation of primeness of C-comodule M and the dual algebra *C of a coring C, the relation to projectivity of a coring in the associated category, the implication of the primeness to the injective hull and product of prime coalgebras.

Received 10-09-2007, Accepted 21-05-2008.

2000 Mathematics Subject Classification: 16W30
Key words and Phrases: Prime modules, corings, comodules over corings, prime comodules, prime corings

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