ICM 1998, Berlin, Aug. 18–27

Abstracts of Short Communications and Posters

Section:

2. Algebra

1991 MS Classification: 16
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On noetherian and artinian rings.

We investigate rings with special module decompositions $M = P \oplus Q$ where P is projective and Q has some special properties.
We obtain a new characterization of noetherian rings: A ring R is right noetherian if and only if every cyclic right R-module is a direct sum of a projective module P and a module Q where Q is *either* injective *or* noetherian.
A module is called CS (or extending) if every submodule is essential in a direct summand. We also investigate rings R for which every (countably generated) right R-module is a direct sum of a projective module P and a CS /quasi-continuous module Q. These provide classes of right artinian rings with "nice" properties. (This is a part of joint work with D. V. Huynh.)