

Modules of finite Cohen-Macaulay type

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Assume that (R, m) is a d -dimensional commutative noetherian complete Cohen-Macaulay local ring. A finitely generated R -module M is called maximal Cohen-Macaulay if some system of parameters of R is an M -regular sequence. An R -module M is said to be of finite Cohen-Macaulay type, if it is the direct sum of (arbitrarily many) copies of a finite number, up to isomorphisms, indecomposable maximal Cohen-Macaulay modules. In this talk we investigate modules of finite Cohen-Macaulay type.