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Constructing infinite families of totally reflexive modules. Preliminary report.

Let (R, m) be a local Noetherian ring which is not Gorenstein and such that it admits a non-free totally reflexive module. A theorem due to Christensen, Piepmeyer, Striuli and Takahashi guarantees the existence on an infinite family of non-isomorphic totally reflexive modules. In this talk we will present some constructions for such family under different assumptions. Particular attention will be given to the case where R admits a pair of exact divisors. (Received April 12, 2010)