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For a local noetherian ring R , the category of reflexive R -modules has been shown very useful in detecting properties of the ring itself.

Recently it was shown that if the ring is not Gorenstein and there exists a non-free totally reflexive module, then there is an infinite family of totally reflexive modules, which are pairwise not isomorphic. We construct such a family over certain local rings with *exact pairs of zero-divisors*. We pay particular attention to local ring with the cube of the maximal ideal being zero. (Received September 12, 2010)