

SOME LIFTABLE CYCLIC MODULES

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ABSTRACT. Let R be the quotient of a commutative ring Q by a Q -regular element f . A finite R -module M is said to lift to Q provided there exists a finite Q -module \tilde{M} such that f is \tilde{M} -regular and $\tilde{M}/f\tilde{M} \simeq M$. We describe a class of cyclic modules which are derived from complete intersections in various ways and which lift to Q in the case where Q is a local ring.