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Hailong Dao* (hdao@math.utah.edu). *On liftable and weakly liftable modules.*

Let T be a commutative local ring, and f be a regular element in T . Let $R=T/(f)$. An R -module M is called liftable to T if there is a T -module M' such that f is regular on M' and $M=M'/(f)$. Such a module M would inherit homological properties from M' , allowing us to study modules over T instead of R . We will discuss some necessary and sufficient conditions for liftable and weakly liftable (meaning M is a direct summand of a liftable one) modules. (Received July 20, 2007)