

1154-18-909

Janina C. Letz* (letz@math.utah.edu). *Smallness properties and locally complete intersections.*

A commutative noetherian ring is regular if and only if all complexes with finitely generated homology are small objects in the derived category. Similarly, a local ring is a complete intersection precisely when these complexes are proxy small. For some rings it is sufficient for one particular complex to be proxy small so that the ring is a locally complete intersection. (Received September 11, 2019)