

1164-18-34

**Alina Iacob\*** (aiacob@georgiasouthern.edu). *DG-Injective Covers, DG-Gorenstein Injective Covers.*

We consider two questions: one about the existence of the dg-injective covers, and the other one about the existence of the dg-Gorenstein injective covers. We prove that the class of dg-injective complexes is covering over a ring  $R$  if and only if the ring is regular. We also show that when  $R$  is a commutative noetherian ring with a dualizing complex, the class of dg-Gorenstein injective complexes is covering if and only if  $R$  is a Gorenstein ring (Received January 14, 2021)