1126-13-68   **S. Estrada**, **X. Fu** and **A. Iacob*** (`aiacob@georgiasouthern.edu`). *Totally acyclic complexes.*
It is known that over an Iwanaga-Gorenstein ring the Gorenstein projective (Gorenstein injective, Gorenstein flat) modules are simply the cycles of the exact complexes of projective (injective, flat) modules. We consider the question: are these characterizations working only over Iwanaga-Gorenstein rings?

Among other results we prove the following theorem:

Let R be a two sided noetherian ring of finite finitistic flat dimension that satisfies the Auslander's condition. The following are equivalent:

1. R is Iwanaga-Gorenstein.

2. Every acyclic complex of injective left (right) R-modules is totally acyclic. (Received January 01, 2017)