

Enochs, Edgar; Yassemi, Siamak**Foxby equivalence and cotorsion theories relative to semi-dualizing modules.** (English)

Zbl 1077.13004

Math. Scand. 95, No. 1, 33-43 (2004).

Given a semi-dualizing module the relative Foxby classes can be defined and there is still an associated Foxby duality; the authors consider these classes and two naturally defined subclasses which are equivalent to the full subcategories of injective and flat modules. Moreover, the authors investigate the question of when these subclasses form part of one of two classes of a cotorsion theory and other interesting results.

Reviewer: [Zhan Jianming \(Enshi\)](#)**MSC:**

- [13C12](#) Torsion modules and ideals in commutative rings
- [13C11](#) Injective and flat modules and ideals in commutative rings
- [13D07](#) Homological functors on modules of commutative rings (Tor, Ext, etc.)
- [13D05](#) Homological dimension and commutative rings

Cited in **10** Documents**Keywords:**[semi-dualizing module](#); [Foxby duality](#); [cotorsion theory](#); [injective modules](#); [flat modules](#)**Full Text:** [DOI](#)