Contraadjusted modules

Alexander Slávik

Contact: slavik.alexander@seznam.cz, Charles University in Prague, Faculty of Mathematics and Physics

Abstract: Following [**?**], a module C is called *contraadjusted* if for each $s \in R$ (R a commutative ring), $\mathrm{Ext}^1_R(R[s^{-1}], C) = 0$. We prove that for commutative noetherian domains of cardinality less than 2^ω, the class of all contraadjusted modules is enveloping, iff R is a G-domain (i.e. the fraction field is of the form $R[s^{-1}]$ for some $s \in R$). Further, we show that over a Dedekind domain, a reduced torsion module is contraadjusted iff each its primary component is bounded.

References

[1] Positselski, L. Contraherent cosheaves. Preprint, arXiv:1209.2995v4.

[2] Slávik, A; Trlifaj, J. Very flat and locally very flat modules. Preprint.