Boğaziçi
MATH GRAD SEMINAR

On CoGalois Groups

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Abstract: Torsion-free covers exist for abelian groups (see [1]). The coGalois group of automorphisms comes from a torsion-free cover $\varphi : C \to A$ of an abelian group A. It is defined in [2] as the group of automorphisms $f : C \to C$ such that $\varphi f = \varphi$ and is denoted by $G(\varphi)$. In the motivation part, the duality relation between Galois and coGalois groups will be given. In this talk, we see that the abelian groups for which the coGalois group is trivial were characterized in [3].

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Time: 15:30
Place: TB 130

References:

[1] Enochs, E. (1963). Torsion free covering modules. Proceedings of the American Mathematical Society, 14(6), 884-889.
[2] Enochs, E. E., Rozas, J. G., Oyonarte, L., & Jenda, O. M. (2000, March). Compact coGalois groups. In Mathematical Proceedings of the Cambridge
Philosophical Society (Vol. 128, No. 2, pp. 233-244). Cambridge University Press.
[3] Enochs, E. E., & Rada, J. (2005). Abelian groups which have trivial absolute coGalois group. Czechoslovak Mathematical Journal, 55(2), 433-437.