

Dryaeva, Roksana Y.; Koibaev, V. A.; Nuzhin, Ya. N.

Full and elementary nets over the quotient field of a principal ideal ring. (English. Russian original) [Zbl 1401.16031](#)

J. Math. Sci., New York 234, No. 2, 141-147 (2018); translation from *Zap. Nauchn. Semin. POMI* 455, 42-51 (2017).

Summary: Let K be the quotient field of a principal ideal ring R , and let $\sigma = (\sigma_{ij})$ be a full (respectively, elementary) net of order $n \geq 2$ (respectively, $n \geq 3$) over K such that the additive subgroups σ_{ij} are nonzero R -modules. It is proved that, up to conjugation by a diagonal matrix, all σ_{ij} are ideals of a fixed intermediate subring P , $R \subseteq P \subseteq K$.

MSC:

[16S50](#) Endomorphism rings; matrix rings

[16S34](#) Group rings

[20H05](#) Unimodular groups, congruence subgroups (group-theoretic aspects)

[13F10](#) Principal ideal rings

Cited in **3** Documents

Keywords:

[elementary nets](#); [quotient field](#)

Full Text: [DOI](#) [MNR](#)

References:

- [1] Borevich, ZI, Subgroups of linear groups rich in transvections, *Zap. Nauchn. Semin. POMI*, 75, 22-31, (1978) · [Zbl 0446.20026](#)
- [2] Koibaev, VA, Nets associated with the elementary nets, *Vladikavkaz. Mat. Zh.*, 12, 39-43, (2010) · [Zbl 1218.20035](#)
- [3] Koibaev, VA, Elementary nets in linear groups, *Trudy Inst. Mat. Mekh. UrO RAN*, 17, 134-141, (2011)
- [4] Koibaev, VA; Nuzhin, YN, Subgroups of the Chevalley groups and Lie rings definable by a collection of additive subgroups of the initial ring, *Fundam. Prikl. Matem.*, 18, 75-84, (2013) · [Zbl 1311.20048](#)
- [5] Kuklina, SK; Likhacheva, AO; Nuzhin, YN, On closeness of carpets of Lie type over commutative rings, *Trudy Inst. Mat. Mekh. UrO RAN*, 21, 192-196, (2015)

This reference list is based on information provided by the publisher or from digital mathematics libraries. Its items are heuristically matched to zbMATH identifiers and may contain data conversion errors. It attempts to reflect the references listed in the original paper as accurately as possible without claiming the completeness or perfect precision of the matching.