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**Ideals of noncommutative  $DR\ell$ -monoids.** (English) Zbl 1081.06017  
Czech. Math. J. 55, No. 1, 97-111 (2005).

Summary: In this paper, we introduce the concept of an ideal of a noncommutative dually residuated lattice-ordered monoid, and we show that congruence relations and certain ideals are in a one-to-one correspondence.

**MSC:**

**06F05** Ordered semigroups and monoids  
**06D35** MV-algebras

Cited in 11 Documents

**Keywords:**

dually residuated lattice-ordered monoid; ideal; normal ideal

**Full Text:** [DOI](#) [EuDML](#)

**References:**

- [1] A. Di Nola, G. Georgescu and A. Iorgulescu: Pseudo BL-algebras: Part I. Mult. Val. Logic 8 (2002), 673-714. · [Zbl 1028.06007](#)
- [2] A. Dvurečenskij: On pseudo MV-algebras. Soft Comp. 5 (2001), 347-354. · [Zbl 0998.06010](#) · [doi:10.1007/s005000100136](#)
- [3] A. Dvurečenskij: Pseudo MV-algebras are intervals in  $\ell$ -groups. J. Austral. Math. Soc. 72 (2002), 427-445. · [Zbl 1027.06014](#) · [doi:10.1017/S1446788700036806](#)
- [4] G. Georgescu and A. Iorgulescu: Pseudo MV-algebras. Mult. Val. Logic 6 (2001), 95-135. · [Zbl 1014.06008](#)
- [5] G. Grätzer: General Lattice Theory. Birkhäuser-Verlag, Basel-Boston-Berlin, 1998.
- [6] I. Chajda: Congruence kernels in weakly regular varieties. Southeast Asian Bull. Math. 24 (2000), 15-18. · [Zbl 0988.08002](#) · [doi:10.1007/s10012-000-0015-8](#)
- [7] I. Chajda, R. Halaš and J. Račánek: Ideals and congruences in generalized MV-algebras. Demonstratio Math. 33 (2000), 213-222.
- [8] T. Kováčik: A general theory of dually residuated lattice ordered monoids. PhD. Thesis. Palacký Univ. Olomouc, 1996.
- [9] J. Račánek: Prime ideals in autometrized algebras. Czechoslovak Math. J. 112 (1987), 65-69. · [Zbl 0692.06007](#)
- [10] J. Račánek: A non-commutative generalization of MV-algebras. Czechoslovak Math. J. 52 (2002), 255-273. · [Zbl 1012.06012](#) · [doi:10.1023/A:1021766309509](#)
- [11] K. L. N. Swamy: Dually residuated lattice ordered semigroups I. Math. Ann. 159 (1965), 105-114. · [Zbl 0135.04203](#) · [doi:10.1007/BF01360284](#)
- [12] K. L. N. Swamy: Dually residuated lattice ordered semigroups III. Math. Ann. 167 (1966), 71-74. · [Zbl 0158.02601](#) · [doi:10.1007/BF01361218](#)

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