ON BALANCED ORDER RELATIONS AND THE NORMAL HULL OF COMPLETELY SIMPLE SEMIRINGS

SUNIL K. MAITY

Department of Mathematics, University of Burdwan
Golapbag, Burdwan – 713104
West Bengal, India

e-mail: skmaity@math.buruniv.ac.in

Abstract

In [1] the authors proved that a semiring $S$ is a completely simple semiring if and only if $S$ is isomorphic to a Rees matrix semiring over a skew-ring $R$ with sandwich matrix $P$ and index sets $I$ and $\Lambda$ which are bands under multiplication. In this paper we characterize all the balanced order relations on completely simple semirings. Also we study the normal hull of a completely simple semiring.

Keywords: skew-ring, Rees matrix semiring, balanced order relation, essential extension, normal extension, normal ideal, normal hull.

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References


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