

Mathematical Structures in Computer Science 2016, pages 1-8

Splitting and non-splitting in the difference hierarchy

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Abstract

Copyright © Cambridge University Press 2016 In this paper, we investigate splitting and non-splitting properties in the Ershov difference hierarchy, in which area major contributions have been made by Barry Cooper with his students and colleagues. In the first part of the paper, we give a brief survey of his research in this area and discuss a number of related open questions. In the second part of the paper, we consider a splitting of $0'$ with some additional properties.

<http://dx.doi.org/10.1017/S0960129516000244>
