

# Lineability in summability

Karl Grosse-Erdmann  
Institut de Mathématique  
Université de Mons  
Le Pentagone  
7000 Mons  
Belgium  
kg.grosse-erdmann@umons.ac.be

## **Abstract**

In summability, and especially so in the theory of sequence spaces, one usually deals with linear phenomena. But this is not always the case. For example, the sum of two conditionally convergent series need not be conditionally convergent. Can one find, even in such cases, some linear structure? We report on some recent answers to this question.