

Ramsey-theoretic analysis of the conditional structure of weakly-null sequences

Stevo Todorcevic

stevo@math.jussieu.fr

Institut de Mathématiques de Jussieu and University of Toronto

Abstract

Understanding the conditional structure that could be present inside a weakly-null sequence in a normed space lies in the heart of several classical problems of this area of mathematics. We will expose the set-theoretic and Ramsey-theoretic methods relevant to both the lack and the existence of this conditional structure. We will concentrate on more recent results and will point out problems for further study.

AMS Classification: 03E05,05D10,46B20.