

HINDMAN AND VAN DER WAERDEN SPACES

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Hindman and van der Waerden spaces were introduced by Kojman with the aid of well-known combinatorial theorems: Hindman's theorem a.k.a. the finite sums theorem, and van der Waerden's theorem about arbitrarily long finite arithmetic progression. In my talk I'd like to present some properties and relationship between these notions. Moreover I'll show how these spaces are connected with the Bolzano-Weierstrass property of ideals.