

JACEK TRYBA - BW PROPERTY FOR HINDMAN AND VAN DER WAERDEN IDEALS

We consider four classes of topological spaces defined with the aid of convergence with respect to ideals on  $\mathbb{N}$  and examine the relationships between each other and terms connected with compactness.

We also show that two of those classes coincide for two particular ideals connected with well known theorems in combinatorics, namely van der Waerden's theorem and Hindman's theorem, and try to generalize the results.