

NOETHERIAN TYPE OF PRODUCTS

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Noetherian type is a cardinal invariant that was introduced by Peregudov in the 90's, capturing properties studied by the Russian school (Malykhin, Peregudov and Shapirovskii, in particular) in the 70's

It can be considered as an order-theoretic version of the weight of a topological space, but in fact has much more in common with the cellularity, that is the supremum of sizes of pairwise disjoint families of open sets in a topological space. This is especially apparent in the class of homogeneous compacta, suggesting possible connections with van Douwen's problem about the existence of a compact homogeneous space of large cellularity.

We will talk about recent progress on the Noetherian type of products.