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Esenin-Vol′pin, A. S.

On the relation between the local and integral weight in dyadic bicompacta. (Russian)

Doklady Akad. Nauk SSSR (N.S.) **68,** (1949). 441–444

Let γ be any cardinal number, and let D_γ be the Cartesian product of a family of cardinal number γ of T_1-spaces, each containing exactly two points. A Hausdorff space is said to be a dyadic bicompactum if it is the continuous image of some space D_γ. For any cardinal number γ, let $\chi(\gamma)$ denote the least cardinal number such that γ is the sum of $\chi(\gamma)$ cardinal numbers each less than γ. The following theorems are proved. (1) The character of any infinite dyadic bicompactum is the upper bound of all of its point characters. (2) If a dyadic bicompactum X has character m and if $(m) > \aleph_0$, then X contains a point whose character is m.

Reviewed by *E. Hewitt*