Povzetek

Osnovni izrek, ki ga obravnava diplomsko delo, je Bingov skrčitveni kriterij, ki pravi, da je navzgor polzvezna dekompozicija $\mathcal{G}$ polnega metričnega prostora X skrčljiva tedaj in le tedaj, ko je mogoče kvocientno preslikavo $\pi : X \to X/\mathcal{G}$ poljubno blizu aproksimirati s homeomorfizmi. Kot primer uporabe tega kriterija je dokazan klasični Schönfliesov izrek.

Abstact

The fundamental result of this thesis is Bing's Shrinkability criterion which states that an upper semicontinuous decomposition $\mathcal{G}$ of a complete metric space X is shrinkable if and only if the quotient map $\pi : X \to X/\mathcal{G}$ can be approximated arbitrarily closely by homeomorfisms. As an application of this criterion, the classical Schoenflies theorem is proved.

Ključne besede in fraze: dekompozicija: navzgor polzvezna, skrčljiva; (poln) metrični prostor, psevdoizotopija, mnogoterost, celularna množica, (dvojni) obrobek, lokalno obrobljena množica.

Key words and phrases: decomposition: upper semicontinuous, shrinkable; (complete) metric space, pseudoisotopy, manifold, cellular set, (bi-)collared set, locally collared set.

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