

MINIMAL SPACE WITH NON-MINIMAL SQUARE

MAGDALENA FORYŚ-KRAWIEC

ABSTRACT. The talk is based on the paper of L. Snoha and V. Spitalsky „Minimal space with non-minimal square” where the authors solve the question whether the product of metric spaces admitting minimal maps also admits a minimal map. In fact they show that for some properly constructed Slovak spaces the following is true:

Theorem 1. *There is a metric continuum X admitting a minimal homeomorphism, such that $X \times X$ does not admit any minimal continuous map.*

We start with the definition of a Slovak space and some of its properties. Then we present the construction of a Slovak space according to the one in [1].

In the second part we will present the proof of the above theorem using the constructed Slovak space.

REFERENCES

- [1] T. Downarowicz, L. Snoha, D. Tywoniuk, *Minimal spaces with cyclic group of homeomorphisms*, J. Dynam. Diff. Eq. **29** (2017) no. 1, 243-257
- [2] L. Snoha, V. Spitalsky *Minimal space with non-minimale square* arXiv:1803.06323