

COUNTABLY COMPACT EXTENSIONS AND CARDINAL CHARACTERISTICS OF THE CONTINUUM

SERHII BARDYLA

In this talk we shall discuss a connection between the existence of regular first-countable countably compact extensions and equalities between certain cardinal characteristics of the continuum. The content of presentation is selected from [1, 2, 3].

Acknowledgement. The present work was supported by the Slovak Research and Development Agency under the Contract no. APVV-20-0045.

References

- [1] S. Bardyla, P. Nyikos, L. Zdomsky: “Embedding into first-countable countably compact spaces”, (in preparation).
- [2] S. Bardyla, L. Zdomsky: “On regular separable countably compact \mathbb{R} -rigid spaces”, *Israel J. Math.*, **255** (2023), 783–810.
- [3] Bardyla, A. Osipov: “On regular κ -bounded spaces admitting only constant continuous mappings into T_1 spaces of pseudo-character $\leq \kappa$ ”, *Act. Math. Hung.* **163** (2021), 323–333.

INSTITUTE OF MATHEMATICS, P. J. ŠAFÁRIK UNIVERSITY IN KOŠICE, SLOVAKIA