

Katarzyna Chrząszcz,* Institute of Mathematics, Lodz University of Technology, Wolczanska 215, 90-924 Lodz, Poland. email: katarzyna.chrzaszcz2@gmail.com

Szymon Głąb,† Institute of Mathematics, Lodz University of Technology, Wolczanska 215, 90-924 Lodz, Poland. email: szymon.glab@p.lodz.pl

ISOMORPHISM THEOREMS FOR σ -IDEALS OF MICROSCOPIC SETS IN METRIC SPACES

During the talk, I will generalize the notion of a microscopic set onto an arbitrary metric space. I will examine microscopic sets in the Cantor space 2^ω and present a series of isomorphism theorems concerning the families of microscopic sets in 2^ω , $[0, 1]$, \mathbb{R} as well as their finite products. Moreover, I will investigate some connections between cardinal invariants for the above mentioned σ -ideals. These are results obtained together with Szymon Głąb. The results come from the submitted paper *Isomorphism theorems for σ -ideals of microscopic sets in various metric spaces*.

Mathematical Reviews subject classification: Primary: 28A05; Secondary: 03E75, 54H05
Key words: microscopic sets, isomorphisms of ideals, small sets, σ -ideals, cardinal invariants

*The author has been supported by the NCN grant DEC-2012/07/D/ST1/02087.

†The author has been supported by the NCN grant DEC-2012/07/D/ST1/02087.