

# Seminarium geometrów

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Jarek Kędra (U. Aberdeen)

## On asymptotic cones of bi-invariant metrics.

Abstract: An asymptotic cone of a group equipped with a bi-invariant metric is a complete metric group. I will present what is currently known about these groups (not much) and discuss examples and open problems. I will also present an alternative construction that does not use ultrafilters and produces a contractible Polish metric group. This group comes with a natural map to the standard cone such that the associated map to the union of cones over all ultrafilters is injective.

Joint work with Assaf Libman, some examples due to Bastien Karlhofer.

*streaming via ZOOM:*

Meeting ID: 967 6507 7409

Meeting password: "GS" (two letters) followed by the Euler characteristic of the closed orientable surface of genus 89.