CONTRIBUTION OF THE COARSE SHAPE TO THE ALGEBRAIC TOPOLOGY

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Developing of the coarse shape theory, which functorially generalizes shape theory, was followed by introducing corresponding algebraic invariants. In this talk we will present some aspects of contributions of the coarse shape theory to algebraic topology. We will discuss some interesting properties of (topological) coarse shape groups, coarse shape pro-groups, pro^*-groups and coarse shape homology groups. Especially, we will compare these algebraic invariants with the analogues algebraic objects in the shape and homotopy theory emphasizing their advantages in studying and classifying locally bad topological spaces.

References

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