

Kolloquium

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Unbounded sets in metric spaces

We construct a pseudometric on the set of unbounded sets whose Kolmogorov quotient is a complete metric space. The boundary at infinity of a CAT(0) space equipped with an angular metric turns out to be bi-Hölder bijective to a closed subset of this Kolmogorov quotient. For finitely generated (or, more generally, compactly generated) groups, one obtains an interesting subset in the Kolmogorov quotient by considering unbounded powers of group elements. In the case of nilpotent Lie groups, we pin that subset down and establish a connection to random walks.



Do · 24 · April

16:15 · HS · D