
BERN-FRIBOURG GRADUATE SEMINAR

a seminar for Master and PhD students

Thursday 13th November, 2025: 16:15 - 17:00

Room B6, Exakte Wissenschaften, Bern

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Speed of convergence of Lie groups to their metric limits

Abstract

We study the small and large scale geometry of Lie groups. By Pansu's Asymptotic Theorem and Mitchell's Tangent Theorem, under suitable hypotheses, both the tangent space and the asymptotic cone of a metric Lie group belong to a particularly nice class of metric spaces: the Carnot groups. In this talk, we present quantitative estimates on the rate of convergence to these limiting spaces.