

Wednesday, November 7th, 16:00
BCAM Seminar room

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THE HAUSDORFF-YOUNG INEQUALITY ON LIE GROUPS

While the best constants in the Hausdorff-Young inequality on \mathbb{R}^n have long been known, the corresponding problem on general noncommutative Lie groups is still open.

In joint work with Michael Cowling, Detlef Müller and Javier Parcet (arXiv:1807.04670), we establish a sharp local central version of the inequality for compact Lie groups, and extend known results for the Heisenberg group. In addition, we prove a universal lower bound to the best constants for general Lie groups.