

**VENTOTENE INTERNATIONAL WORKSHOPS VI
GRAZP: GROUPS AND RIGIDITY AROUND THE ZIMMER PROGRAM
VENTOTENE, 11-16 SEPTEMBER 2023**

RIGIDITY OF COMMENSURATORS AND ITS APPLICATIONS

Wouter Van Limbeek
University of Illinois, Chicago

I will discuss a question raised independently by Greenberg and Shalom: Can an infinite discrete subgroup of a simple Lie group have dense commensurator and not be a lattice? I will explain the surprising connections between this question and other long-standing open problems, and discuss recent progress on special cases of the question.

This is joint work with (subsets of) Brody, Fisher, and Mj.