

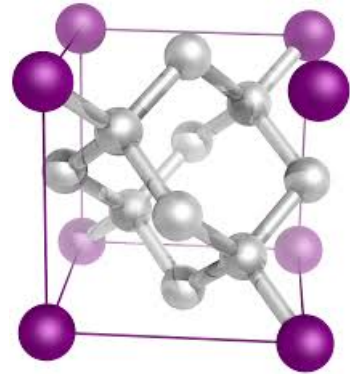
Oberseminar Geometrie

Department of Mathematics

University of Fribourg

Physics 2.52

Wednesday, October 19, 2022, 10:20



PATRICK GHANAAT (UNIFR)

Bieberbach's theorems for nilpotent groups

Bieberbach's theorems provide a description of crystallographic groups - discrete cocompact groups of isometries of euclidean space. Beginning with L. Auslander in the 1960s, the theory has been extended from euclidean space, viewed as abelian Lie group with an invariant metric, to nilpotent Lie groups, equipped with left invariant Riemannian metrics. Discrete cocompact groups of isometries of such spaces are called almost crystallographic groups. The talk provides an introduction to the area and discusses Bieberbach's theorems in this context.