FROM TELESCOPES TO FRAMES AND SIMPLE GROUPS

Fudan Topology Seminar

Speaker: Eduard Schesler

FernUniversität in Hagen

Time: Tue, Apr. 11th, 15:00-17:00

Zoom Meeting ID: 853 0188 1524   **Password:Fudan2023**

Abstract: I will introduce the notion of a telescope of groups. Very roughly a telescope is a directed system of groups that contains various commuting images of some fixed group B. Imitating known constructions of groups acting on rooted trees, we obtain a number of examples of B-telescopes and discuss several applications.

We give examples of 2-generated infinite amenable simple groups. We show that every finitely generated residually finite (amenable) group embeds into a finitely generated (amenable) simple LEF-group. We construct 2-generated frames in products of finite simple groups and show that there are Grothendieck pairs consisting of amenable groups and groups with property (tau). This talk is based on a joint work with Steffen Kionke.