Otto-von-Guericke-Universität Magdeburg
Fakultät für Mathematik

Auf Einladung des Institutes für Algebra und Geometrie spricht

Frau Annette Karrer

(Technion, Haifa)

über das Thema

Contracting boundaries of right-angled Coxeter groups

Zoom-Koordinaten: https://ovgu.zoom.us/j/95199662620
Meeting ID: 951 9966 2620 / Passcode: 461614

Zeit: Dienstag, 1. Dezember 2020, 14.00 Uhr

Zu diesem Vortrag laden wir alle Interessierten herzlich ein.

Prof. Dr. Petra Schwer

Abstract: A complete CAT(0) space has a topological space associated to it called the contracting or Morse boundary. This boundary captures how similar the CAT(0) space is to a hyperbolic space. Charney–Sultan proved this boundary is a quasi-isometry invariant, i.e. it can be defined for CAT(0) groups. In my PhD thesis, I studied contracting boundaries of amalgamated free products of CAT(0) groups and applied my insights to right-angled Coxeter groups. In the talk, I will present the main results of my thesis with the focus on contracting boundaries of right-angled Coxeter groups. We will get to know right-angled Coxeter groups with totally disconnected contracting boundaries and will study interesting situations in which large connected components occur.