

Online Seminar on Chemotaxis

Date: 28th of June 2022 10:00 – 11:00 in “Central EU” hour
(which is 16:00 – 17:00 in “Beijing” hour and 17:00 – 18:00 in “Seoul–Tokyo” hour)

Speaker: Michael Winkler (Universität Paderborn)

Title: Critical mass phenomena in the analysis of chemotactic aggregation

Abstract:

Critical mass phenomena belong to the most striking subtleties in Keller-Segel type aggregation dynamics. Starting from classical findings concerned with two-dimensional problems, the presentation aims at describing some recent developments which confirm crucial roles of total population sizes in a large number of contexts. In particular, the presence L^1 thresholds in some higher-dimensional problems is discussed, as well as the occurrence of certain secondary critical mass phenomena.

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