

Online Seminar on Chemotaxis

Date: 26th of April 2022 16:00 – 17:00 in “Beijing” hour
(which is 10:00 – 11:00 in “Central EU” hour and 17:00 – 18:00 in “Seoul–Tokyo” hour)

Speaker: Youshan Tao (Shanghai Jiao Tong University)

Title: Critical mass and threshold parameter in a haptotaxis system modeling oncolytic virotherapy

Abstract:

This talk reports some recent progress in the study of a four-component haptotaxis model describing the process of oncolytic virotherapy, and it is based on several works cooperated with Michael Winkler (Paderborn). The presentation addresses global classical solvability, a critical mass phenomenon for infinite-time blow-up, a borderline virus replication rate with regard to efficiency of the virotherapy, as well as asymptotic stability of the spatial homogeneity in an associated two-dimensional no-flux initial-boundary value problem.

Organizers: Jie Jiang (jiang@apm.ac.cn) and Kentaro Fujie (fujie@tohoku.ac.jp)