

Efficiency of Containment Measures: a Qualitative and Quantitative Research of Random Dynamics in Stochastic Environments

Initiative: Corona Crisis and Beyond – Perspectives for Science, Scholarship and Society

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Laufzeit: 1 Jahre 6 Monate

In this project, two mathematicians and one epidemiologist will put their forces together to understand the fundamental dynamics behind the spread of epidemics. The key result will be a thorough theoretical and empirical treatment of a newly developed class of models that account explicitly for social structures as well as the mobility of individuals. The interplay of these two factors has not been recognised and studied before, and the findings will enable us to perform a fine evaluation of the effectiveness of containment measures.

Projektbeteiligte

Prof. Dr. Konstantinos Panagiotou

Universität München
Fakultät für Mathematik, Informatik und Statistik
Mathematisches Institut
München

Prof. Dr. Markus Heydenreich

Universität München
Mathematisches Institut
München

Prof. Dr. Ulrich Mansmann

Universität München
Medizin
IBE
München