



Department of  
Mathematical Sciences

# Colloquium

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**University of Vienna, Austria**

Friday, February  
26th, 2021 @  
3:00pm

Online via Microsoft  
Teams



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## **Dynamic aspects of deterministic mass-action systems**

Mass-action dynamical systems are probably the most common mathematical models in biochemistry, cell biology, and population dynamics. Moreover, they represent a large class of polynomial dynamical systems that are important both theoretically and from the point of view of applications. In this talk, we give an introduction to the asymptotic stability of the positive equilibria of mass-action systems, as well as to the more global dynamical properties like persistence, boundedness, permanence, and global asymptotic stability.



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