

## Session Program

Apr 11 - 14, 2023



**Scientific Committee**  
Harald van Brummelen (Eindhoven)  
Martin Frank (Karlsruhe)  
Clinton Groth (Toronto)  
Cory Hauck (Oak Ridge)  
Ruo Li (Peking)  
Manuel Torrilhon (Aachen)  
Jingmei Qiu (Newark)  
Henning Struchtrup (Victoria)  
Kun Xu (Hong Kong)

**Karlsruhe (Germany)**  
**April 11-14, 2023**

[s.kit.edu/mmkt2023](https://s.kit.edu/mmkt2023)

International Workshop on  
**Moment Methods in  
Kinetic Theory IV**

  
**KIT**  
Karlsruhe Institute of Technology

Impressionen der Schloßlichtspiele. Eine Kooperation von ZKM | Karlsruhe und Karlsruhe Event GmbH. MediaDaily: >300 Fragmenten. Karlsruhe 2015 © ZKM | Zentrum für Kunst und Medientechnologie, Foto: Pabst

# International Workshop on Moment Methods in Kinetic Theory IV

## Day 3 Talks

Karlsruhe Institute of Technology  
KIT Campus South Engesserstrasse 5 76131 Karlsruhe

# Thu, April 13

9:00 AM

## Day 3 Talks: Morning Session

**Session** | **Location:** Lecture hall NTI (Nachrichtentechnik Hörsaal)

09:00 – 09:40

### Asymptotic Preserving Method for Multiscale Levy-Fokker-Planck

#### Speaker

Weiran Sun

09:40 – 10:20

### Fokker-Planck Kinetics: from stochastic particle systems to closures

#### Speaker

Hossein Gorji

10:50 – 11:30

### Kinetic Models for the Life Cycle and Spread of Invasive Forest Pests

#### Speaker

Benjamin Seibold

11:30 – 12:10

### Moment-Driven Predictive Control

#### Speaker

Michael Herty

12:10 PM

2:00 PM

## Day 3 Talks: Afternoon Session

**Session** | **Location:** Lecture hall NTI (Nachrichtentechnik Hörsaal)

14:00 – 14:40

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#### Speaker

Julia Kowalski

14:40 – 15:20

### A regularized Grad's model for electrons in partially-ionized plasma discharges

#### Speaker

Alejandro Alvarez Laguna

15:50 – 16:30

### Blow up or not? A case study for kinetic granular equation

#### Speaker

Li Wang

16:30 – 17:10

### A parallel dynamical low-rank integrator for kinetic problems

#### Speaker

Jonas Kusch

5:10 PM