

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)
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Henning Struchtrup (Victoria)
Kun Xu (Hong Kong)

Karlsruhe (Germany)
April 11-14, 2023

s.kit.edu/mmkt2023

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

KIT
Karlsruhe Institute of Technology

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International Workshop on Moment Methods in Kinetic Theory IV

Day 2 Talks

Karlsruhe Institute of Technology
KIT Campus South Engesserstrasse 5 76131 Karlsruhe

Wed, April 12

9:00 AM

Day 2 Talks: Morning Session

Session | **Location:** Karlsruhe Institute of Technology, KIT Campus South Engesserstrasse 5 76131 Karlsruhe

09:00 – 09:40

Moment methods for kinetic traffic flow equations

Speaker

Axel Klar

Location

Lecture hall NTI (Nachrichtentechnik Hörsaal)

09:40 – 10:20

A Local Macroscopic Conservative (LoMaC) low rank tensor method for the Vlasov dynamics

Speaker

Jingmei Qiu

Location

Lecture hall NTI (Nachrichtentechnik Hörsaal)

10:20 – 10:50

Coffee break

10:50 – 11:30

Beyond moments: dynamical low-rank approximation in kinetic theory

Speaker

Lukas Einkemmer

Location

Lecture hall NTI (Nachrichtentechnik Hörsaal)

11:30 – 12:10

A well suited approach of some relaxation operators to moment methods. Derivation and analysis

Speaker

Jacques Schneider

Location

Lecture hall NTI (Nachrichtentechnik Hörsaal)

12:10 PM