

## Session Program

Apr 11 - 14, 2023



# International Workshop on Moment Methods in Kinetic Theory IV

## Day 1 Talks

Karlsruhe Institute of Technology  
KIT Campus South Engesserstrasse 5 76131 Karlsruhe

# Tue, April 11

8:55 AM

## Day 1 Talks: Morning Session

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

09:00 – 09:15 **Opening**

09:15 – 09:55 **Moment Equations for Liquid, Vapor, and their Interface**

**Speaker**

Henning Struchtrup

09:55 – 10:35 **Perspectives on Advanced Moment Methods for Radiative Transfer**

**Speaker**

Ryan McClarren

11:10 – 11:50 **Recent advances in quadrature-based moment methods**

**Speaker**

Rodney Fox

11:50 – 12:30 **tba**

**Speaker**

Jingwei Hu

12:30 PM

2:15 PM

## Day 1 Talks: Afternoon Session

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

14:15 – 14:55 **Capturing Multiscale Physics using Continuum Plasma Models**

**Speaker**

Uri Shumlak

14:55 – 15:35

**Linear regularized 13-moment equations with Onsager boundary conditions**

**Speaker**

Zhenning Cai

16:15 – 16:55

**Moment methods for the 3D radiative transfer equation based on phi-divergences**

**Speaker**

Teddy Pichard

16:55 – 17:35 **Deep learning-assisted kinetic modeling and simulation**

**Speaker**

Tianbai Xiao

5:35 PM