# **Chair: Josef Weinbub**

# Note: Each talk slot contains 5 minutes of Q&A

### **Wigner Distribution Function**

(Overview Talk) <u>David K. Ferry</u>: "Wigner Functions, Variations and Entanglement" 09:00-09:30

(Short Talk) <u>Bartlomiej J. Spisak</u>, Maciej Woloszyn: "Wigner Representation of Electron Dynamics in Presence of Thermal Dephasing in Disordered Systems" 09:30-09:50

(Short Talk) <u>Kyoung-Youm Kim</u>, Saehwa Kim: "Uncertainty and Quantum Correlation in Discrete Wigner Transport Equations" 09:50-10:10

## **Boundary Conditions**

(Overview Talk) Joon-Ho Lee, Mincheol Shin, <u>Ting-wei Tang</u>: "Review of Boundary Conditions and Discretization Schemes for the Solution of Wigner Transport Equation" 10:10-10:40

(Short Talk) Anton Arnold, Ruo Li, Tiao Lu, <u>Zhangpeng Sun</u>: "Convergence of Stationary Wigner Equation with Inflow Boundary Conditions" 10:40-11:00

### Break: 11:00-11:45

### **Simulations and Applications**

(Overview Talk) <u>Wei Cai</u>: "Adaptive Conservative Chebyshev Polynomial Spectral Element Methods for Transient Wigner Equation in Quantum Transport" 11:45-12:15

(Short Talk) Josef Weinbub, Paul Ellinghaus, Mihail Nedjalkov, Siegfried Selberherr: "ViennaWD – Status and Outlook" 12:15-12:35

(Short Talk) Paul Ellinghaus, Josef Weinbub, Mihail Nedjalkov, Siegfried Selberherr: "ViennaWD – Applications" 12:35-12:55