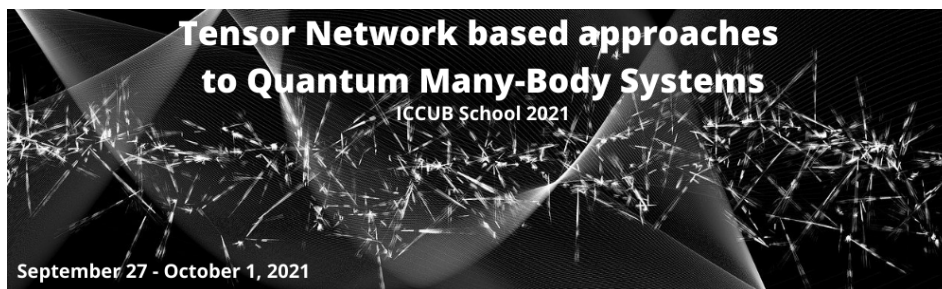# Tensor Network based approaches to Quantum Many-Body Systems ICCUB School 2021

Report of Contributions

Contribution ID: **32**   Type: **not specified**

Introduction to Matrix Product State (MPS) and numerical simulations with MPS

Monday 27 September 2021 09:00 (1h 30m)

Presenter: Dr BAÑULS, Mari Carmen (Max Planck Institute of Quantum Optics)

Contribution ID: **33**   Type: **not specified**

Introduction to Matrix Product State (MPS) and numerical simulations with MPS

Monday 27 September 2021 11:00 (1h 30m)

Presenter: Dr BAÑULS, Mari Carmen (Max Planck Institute of Quantum Optics)

Contribution ID: **34** Type: **not specified**

MPS+TEBD Tutorials

Monday 27 September 2021 14:30 (3 hours)

Presenter: Dr BAÑULS, Mari Carmen (Max Planck Institute of Quantum Optics)

Contribution ID: **35** Type: **not specified**

Lecture: Advanced MPS algorithms and the TenPy library

Tuesday 28 September 2021 09:00 (1h 30m)

Presenter: Dr HAUSCHILD , Johannes (UC Berkeley)

Contribution ID: **36**   Type: **not specified**

Lecture: Advanced MPS algorithms and the TenPy library

Tuesday 28 September 2021 11:00 (1h 30m)

Presenter: Dr HAUSCHILD , Johannes (UC Berkeley)

Contribution ID: 37 Type: **not specified**

Tutorials

Tuesday 28 September 2021 14:30 (3 hours)

Presenter: Dr HAUSCHILD , Johannes (UC Berkeley)

Contribution ID: **38** Type: **not specified**

Lecture: Simulation of problems in atomic and condensed matter physics

Wednesday 29 September 2021 09:00 (1h 30m)

Presenter: Dr MANMANA, Salvatore (University of Göttingen)

Contribution ID: **39** Type: **not specified**

Lecture: Simulation of problems in atomic and condensed matter physics

Wednesday 29 September 2021 11:00 (1h 30m)

Presenter: Dr MANMANA, Salvatore (University of Göttingen)

Contribution ID: **40**   Type: **not specified**

Applications to condensed matter + AMO Turorials

Wednesday 29 September 2021 14:30 (3 hours)

Presenter: Dr MANMANA, Salvatore (University of Göttingen)

Contribution ID: 41 Type: **not specified**

Lecture: Intoduction to Projected entangled pair states (PEPS) and numerical simulations with PEPS

Thursday 30 September 2021 09:00 (1h 30m)

Presenter: Dr CORBOZ, Philippe (UVA)

Contribution ID: 42 Type: **not specified**

Lecture: Intoduction to Projected entangled pair states (PEPS) and numerical simulations with PEPS

Thursday 30 September 2021 11:00 (1h 30m)

Presenter: Dr CORBOZ, Philippe (UVA)

Contribution ID: **43** Type: **not specified**

PEPS Tutorials

Thursday 30 September 2021 14:30 (3 hours)

Presenter: Dr CORBOZ, Philippe (UVA)

Contribution ID: 44   Type: **not specified**

Lecture: Continuous Tensor Networks

Friday 1 October 2021 09:00 (1h 30m)

Presenter: Dr TILLOR, Antoine (UVA)

Contribution ID: 45   Type: **not specified**

Lecture: Continuous Tensor Networks

Friday 1 October 2021 11:00 (1h 30m)

Presenter: Dr TILLOY, Antoine (UVA)

Contribution ID: 46 Type: **not specified**

Tutorials

Friday 1 October 2021 15:00 (1h 30m)

Presenter: Dr TILLOR, Antoine (UVA)

Contribution ID: 47   Type: **not specified**

Registration & Welcome

Monday 27 September 2021 08:30 (30 minutes)