

# ERC-Syg Workshop “FASTCORR”

9.-10. June 2022

University of Hamburg  
I. Institute of Theoretical Physics  
Notkestraße 9, 3<sup>d</sup> Floor, Room 3114

## Program

**Thursday, June 9<sup>th</sup>**

**9:30** Discussion / Coffee

### *Nijmegen-talks*

10:00 **Askar Iliasov** *Floquet Systems*

10:20 **Tom Westerhout** *Correlation assisted hoppings*

10:40 **Koen Reijnders** *Plasmons in spatially inhomogeneous media: semiclassical approach*

**11:00** Discussion / Coffee

12:00 **Achille Mauri** *Quantum membranes*

12:20 **Danis Badrtdinov** *Probing optical properties of correlated point defects by quantum embedding approach*

12:40 **Swagata Acharya** *Excitons in strongly correlated systems*

**13:00** Lunch “Saalbach Bistro”, Bertrand-Russell-Straße 4 (200 m)

### *Uppsala-talks*

15:00 **Chin Shen Ong** *TD-GW*

15:20 **Vladislav Borisov** *Higher-order interactions in magnetic systems*

15:40 **Patrik Thunström** *Time-dependent two particle susceptibilities*

**16:00** Discussion / Coffee

17:00 **Mohamed Elhanoty** *Transient X-ray absorption spectra from TDDFT*

17:20 **Oscar Grånäs** *Strong correlation in TDDFT*

17:40 **Olle Eriksson** *Truncated Wigner approximation for graphene and XAS for oxides*

**18:00** Dinner Restaurant “Hala”, Beselerpl. 11, S1-Othmarschen (18:30)

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Friday, June 10<sup>th</sup>

9:30 Discussion / Coffee

### Hamburg-talks

10:00 **Matteo Vandelli** *Non-local electronic correlations with multi-orbital D-TRILEX*

10:20 **Nagamalleswara Rao Dasari** *Efficient time-dependent D-TRILEX*

10:40 **Yusuf Mohammed** *Vertex corrections in transport*

11:00 Discussion / Coffee

### EuXFEL-talks

11:20 **Justine Schlappa** *XFEL experiments on strongly correlated systems*

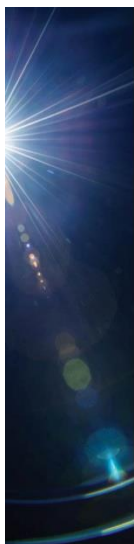
12:00 **Dmitry Khakhulin** *Femtosecond hard X-ray spectroscopy and scattering at FXE:*

*how can we convert experimental results into scientific knowledge using theory?*

12:40 **Alexander Lichtenstein** *Tuning properties of strongly correlated materials by XFEL pulses*

13:00 Lunch “Saalbach Bistro”, Bertrand-Russell-Straße 4 (200 m)

14:30 General Discussion / Coffee / Conclusion



## FASTCORR

Ultrafast dynamics of correlated electrons in solids

**Olle Eriksson**, Uppsala University, Örebro University Sweden

**Mikhail Katsnelson**, Radboud University, Nijmegen, Netherlands

**Alexander Lichtenstein**, Hamburg University and XFEL, Germany

