



Annual meeting of the  
International Max Planck Research  
School of Advanced Photon Science  
(IMPRS-APS) and scientific writing  
seminar

November 11<sup>th</sup> – 13<sup>th</sup>, 2020, Online



# Links to join the online sessions

- **IMPRS-APS Annual Meeting (for all 3 days):**

<https://lmu-munich.zoom.us/j/96127332674?pwd=NFREM2NBZUVERHduMzZKeERpOTlnZz09>

Meeting ID: 961 2733 2674, Passcode: 231389

- **Seminar “Scientific Writing” (November 12<sup>th</sup> and 13<sup>th</sup>, 9am-1pm):**

<https://lmu-munich.zoom.us/j/95327635210?pwd=WGs1YWtNVFhudWZBaHkzM1pyWTh6dz09>

Meeting ID: 953 2763 5210, Passcode: 751103

# 11<sup>th</sup> of November

<b>Chair: Hadil Kassab</b> 9:00 – 9:15	Towards precision spectroscopy of 2S-nP transitions in deuterium	Vitaly Wirthl	Udem
9:15 – 9:30	Detecting invisible ions and hitting them with lasers	Fabian Schmid	Udem
9:30 – 9:45	Quantifying excited state locality in a DNA self-repair mechanism	Sebastian Reiter	Vivie-Riedle
9:45 – 10:00	Transient absorption spectroscopy of monolayer MoS2 - is the ultrafast signal rise sign of an exciton formation	Valerie Smejkal	Burgdörfer
<b>10:00 – 10:15</b>	<b>Break</b>		
<b>Chair: Katinka v. Grafenstein</b> 10:15 – 10:30	Ultrafast energy transfer in rylene-oligomers: dependence on excitation energy and structure	Yi Xu	Hauer
10:30 – 10:45	Laser Development: New Light Sources For Attosecond Experiments	Maximilian Seeger	Nubbemeyer/ Kling
10:45 – 11:00	Ultrafast Currents in Gases	Ancylie Maliakkal	Bergues
11:00 – 11:15	Pure optical near-field control on nanoparticle surfaces	Ritika Dagar	Bergues
<b>11:15 – 11:30</b>	<b>Break</b>		
<b>Chair: Philip Jacob</b> 11:30 – 11:45	Six years to achieve 10 TW/10 J with the PFS pump laser	Mathias Krüger	Karsch
11:45 – 12:00	Optimisation of laser wakefield accelerators using Machine-learning methods	Faran Irshad	Karsch
12:00 – 12:15	Laser Wakefield Acceleration to GeV Electron Energies - Preparations for the Breit-Wheeler Experiment	Katinka von Grafenstein	Karsch

# 11<sup>th</sup> of November

<b>12:15 – 14:00</b>	<b>Lunch break</b>		
<b>Chair: Yi Xu</b> 14:00 – 14:15	High power, high repetition-rate, broadband source for spectroscopic applications	Gaia Barbiero	Kling
14:15 – 14:30	Experiments on time-resolved microscopy and broadband Raman spectroscopy	Dziugas Kimbaras	Kling
14:30 – 14:45	Valleytronics in tailored strong-fields: Towards its experimental realization	Sambit Mitra	Kling
14:45 – 15:00	How to measure the pulse we use to measure other pulses	Najd Altwaijry	Weidman/ Yakovlev/Kling
<b>15:00 – 15:15</b>	<b>Break</b>		
<b>Chair: Ancyline Maliakkal</b> 15:15 – 15:30	Towards time resolved VUV linear photoionization sampling	Keyhan Golyari	Weidman/Yakovlev
15:30 – 15:45	TMF: from THz generation to molecular signature	Enrico Ridente	Weidman/Yakovlev
15:45 – 16:00	ACCORD—the next generation laser system for Attosecond Metrology AM 2.0	Hadil Kassab	Weidman/Yakovlev
16:00 – 16:15	Sub-cycle Carrier Dynamics in Metals and Semiconductors	Julia Anthea Gessner	Weidman/Yakovlev

## 12<sup>th</sup> of November

<b>9:00 – 13:00</b>	<b>Seminar „Scientific Writing“ / Professional Soft Skill Series</b>	<b>Justin Mullins</b>	
<b>13:00 – 14:30</b>	<b>Lunch break</b>		
<b>Chair: Ritika Dagar</b> 14:30 – 14:45	IR-fingerprinting: a potential tool for screening human health status	Cristina Leonardo	Zigman
14:45 – 15:00	Towards field-resolved infrared spectroscopy of gases	Daniel Gerz	Zigman
15:00 – 15:15	Field-Resolved Infrared Spectroscopy -From Fundamentals towards Medical Applications	Marinus Huber	Zigman
15:15 – 15:30	Electric-Field molecular fingerprints with rapid delay scanning	Philip Jacob	Pupeza
15:30 – 15:45	Field-resolved detection of mid-infrared radiation approaching single-photon sensitivity	Christina Hofer	Pupeza
<b>15:45 – 16:00</b>	<b>Break</b>		
<b>16:00 – 18:00</b>	<b>Slot for PhD discussions</b>		

# 13<sup>th</sup> of November

9:00 – 13:00	Seminar „Scientific Writing“ / Professional Soft Skill Series	Justin Mullins
13:00 – 14:30	Lunch break	
Chair: Faran Irshad 14:30 – 15:30	Life-science software for the masses	Prof. Jürgen Cox
15:30 – 16:00	Summary & conclusion remarks	