Symposium Electronic 2D Spectroscopy from Small to Large Systems (SYED)

jointly organized by the Molecular Physics Division (MO), and the Quantum Optics and Photonics Division (Q)

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Coherent two-dimensional (2D) spectroscopy is one of the hottest topics in modern optical investigations. The methods originally developed for NMR measurements have been adapted first to the IR region but now more and more groups have pushed the reachable spectral range via the 800 nm region to the visible and lately even to the UV and XUV. The symposium is aimed to introduce a general audience to the topic and technologies. We want to promote full harvesting of the scientific possibilities for new insight into physical, chemical and biological processes and ultrafast dynamics. The talks span the full range from electrons in atoms to biological systems.

Overview of Invited Talks and Sessions

(lecture room E 415)

Invited Talks

SYED 1.1	Mon	11:00-11:30	E 415	Signatures of vibronic and vibrational coherences in electronic 2D- spectra of monomers and aggregates — FRANZ MILOTA, TOMAS MAN-
				cal, Harald F. Kauffmann, •Jürgen Hauer
SYED 1.2	Mon	11:30-12:00	E 415	Beatings in Electronic 2D Spectroscopy — •TÖNU PULLERITS
SYED 1.3	Mon	12:00-12:30	E 415	Resonant 2D Raman Spectroscopy — •TIAGO BUCKUP, JAN PHILIP
				Kraack, Marcus Motzkus
SYED 1.4	Mon	12:30 - 13:00	E 415	Coherent Two-Dimensional Electronic Spectroscopy With Triggered
				Exchange — • PATRICK NUERNBERGER, STEFAN RUETZEL, MARTIN KULL-
				MANN, JOHANNES BUBACK, TOBIAS BRIXNER
SYED 2.1	Mon	14:00-14:30	E 415	Two-dimensional UV and visible spectroscopy of biological system
				— •Majed Chergui, Gerald Auböck, Cristina Consani, Roberto
				Monni, André El Haddad, Frank van Mourik
SYED 2.2	Mon	14:30-15:00	E 415	Ultrabroad 2D-UV spectroscopy: from coherent internal conversion
				in pyrene towards exciton dynamics in $DNA - \bullet IGOR$ PUGLIESI, NILS
				Krebs, Eberhard Riedle
SYED 2.3	Mon	15:00 - 15:30	E 415	Multidimensional XUV-NIR spectroscopy of electronic dynamics
				in small quantum systems — •Christian Ott, Andreas Kaldun,
				Kristina Meyer, Philipp Raith, Martin Laux, Alexander Blätter-
				mann, Thomas Ding, Thomas Pfeifer
SYED 2.4	Mon	15:30 - 16:00	E 415	Correlated Two-electron Wave-Packets in Helium $ \bullet$ JAVIER
				Madronero

Sessions

SYED 1.1–1.4	Mon	11:00-13:00	E 415	Electronic 2D Spectroscopy from Small to Large Systems I
SYED 2.1–2.4	Mon	14:00-16:00	E 415	Electronic 2D Spectroscopy from Small to Large Systems II