

Workshop

20 Years CINSaT

(Venue: Tagungszentrum Südflügel, Franz-Ulrich-Straße 6, 34117 Kassel)

Day 1: (01.06.2022, Wednesday)

Registration starts at 08:00 am

Speeches & Notes

9:00 - 9:05	Opening Remarks	Johann Peter Reithmaier (Head of CINSaT)
9:05 - 9:20	CINSaT History and Background	Johann Peter Reithmaier
9:20 - 9:30	Remarks by the Presidential Board of the University	Michael Wachendorf (Vicepresident for research)
9:30 - 9:50	Greeting notes from Deans of participating faculties	Specovius-Neugebauer (FB10), Gaßmann (FB14), Refflinghaus (FB15), Bangert (FB16)

Session 1a: Nano-Photonics (Chair: Reithmaier)

9:50 - 10:25	Talk 1: Efficiency in the interaction of light and matter: from nano-quantum-optics to nanobiophotonics	Vahid Sandoghdar (MPI for the Science of Light, Erlangen, Germany)
10:25 - 10:40	Coffee break	

Session 1b: Nano-Photonics (Chair: Reithmaier)

10:40 - 11:15	Talk 2: Quantum dots for green quantum technologies	Dieter Bimberg (Bimberg Chinese-German Center for Green Photonics, Changchun, China)
11:15 - 11:50	Talk 3: Semiconductor quantum dots as deterministic sources of indistinguishable photons in a cluster state	David Gershoni (Technion, Haifa, Israel)
11:50 - 12:50	Lunch break	

Cultural Program

12:50 - 13:20	Moving to the meeting point Hercules Statue	Bus transfer
13:30 - 16:00	Guided Tour of the World Heritage Site Bergpark Wilhelmshöhe (water and good walking shoes recommended)	all attendees
16:30 - 17:00	Bus transfer to venue and hotel	all attendees
19:00 - 23:00	Workshop Banquet at Alte Brüderkirche	all attendees

Day 2: (02.06.2022, Thursday)

Registration starts at 08:45 am

Session 2: Chiral structures (Chair: Demekhin)

9:00 - 9:35	Talk 4: Attosecond spectroscopy: watching electrons in action	Hans Jakob Wörner (ETH Zürich, Switzerland)
9:35 - 10:10	Talk 5: Twists and Turns in Chiral Ionization	Ivan Powis (University of Nottingham, UK)
10:10 - 10:25	Coffee break	

Session 3: Characterization of nano- and microstructured materials (Chair: Middendorf)

10:25 - 11:00	Talk 6: Nanoscale 3-D X-ray microscopy at BESSY II	Gerd Schneider (Humboldt University & Helmholtz-Zentrum Berlin, Germany)
11:00 - 11:35	Talk 7: Microstructure characterization using neutron diffraction	Matthias Gutmann (Science and Technology Facilities Council, Harwell Campus, UK)
11:35 - 11:50	Coffee break	

Session 4: Physics and applications based on 2D materials (Chair: Lehmann)

11:50 - 12:25	Talk 8: Optoelectronic devices based on scalable 2D Materials	Gerd Bacher (University of Duisburg-Essen, Germany)
12:25 - 13:00	Talk 9: Topological physics in HgTe based quantum devices	Laurens Molenkamp (University of Würzburg, Germany)
13:00 - 13:15	Group photo	
13:15 - 14:15	Lunch break	

Session 5: 3D nanostructures (Chair: Hillmer)

14:15 - 14:50	Talk 10: Enabling technologies for 3D nanofabrication in extended workspaces	Steffen Strehle (Ilmenau University of Technology, Germany)
14:50 - 15:25	Talk 11: Plasmonic superlattices	Andreas Seifert (CIC nanoGUNE, San Sebastian, Spain)
15:25 - 15:40	Coffee break	

Session 6: Quantum Dot Devices (Chair: Reithmaier)

15:40 - 16:15	Talk 12: Ultra-narrow linewidth semiconductor laser locked to a fiber Mach Zehnder interferometer	Gadi Eisenstein (Technion, Haifa, Israel)
16:15 - 16:50	Talk 13: The future of quantum dot lasers for next generation silicon photonics	Frederic Grillot (Télécom Paris, France)
16:50 - 17:25	Talk 14: Modelling of InAs/GaAs quantum dot lasers epitaxially grown on silicon	Mariangela Gioannini (Politecnico di Torino, Italy)

Poster Session

17:30 - 19:00	Poster session (with beer and pretzel)	All
---------------	--	-----

Day 3: (03.06.2022, Friday)

Session 7: Imaging and assembly of biological systems on the nanoscale (Chair: Müller)

9:00 - 9:35	Talk 15: From molecular interactions to microbial infections - Biological imaging in Nanoscience Center, University of Jyväskylä, Finland	Lotta-Riina Sundberg (University of Jyväskylä, Finland)
9:35 - 10:10	Talk 16: Down-and-up: Combining DNA self-assembly with top-down fabrication	Jussi Toppari (University of Jyväskylä, Finland)
10:10 - 10:45	Talk 17: Uncovering biomechanics of cellular protein machines by fluorescence nanoscopy	Michal Skruzny (EMBL Heidelberg, Germany)
10:45 - 11:15	Coffee break	

Session 8: Quantum optics (Chair: Lehmann)

11:15 - 11:50	Talk 18: Recent results on epitaxial quantum dots as efficient single photon emitters at the telecommunication wavelengths	Grzegorz Sek (Wroclaw University of Science and Technology, Poland)
11:50 - 12:25	Talk 19: Photonic crystal parametric light sources	Alfredo De Rossi (THALES Research and Technology, Palaiseau, France)

Closing of the Workshop

12:25 - 12:35	Closing speech	Johann Peter Reithmaier
12:35 - 14:00	Lunch break	

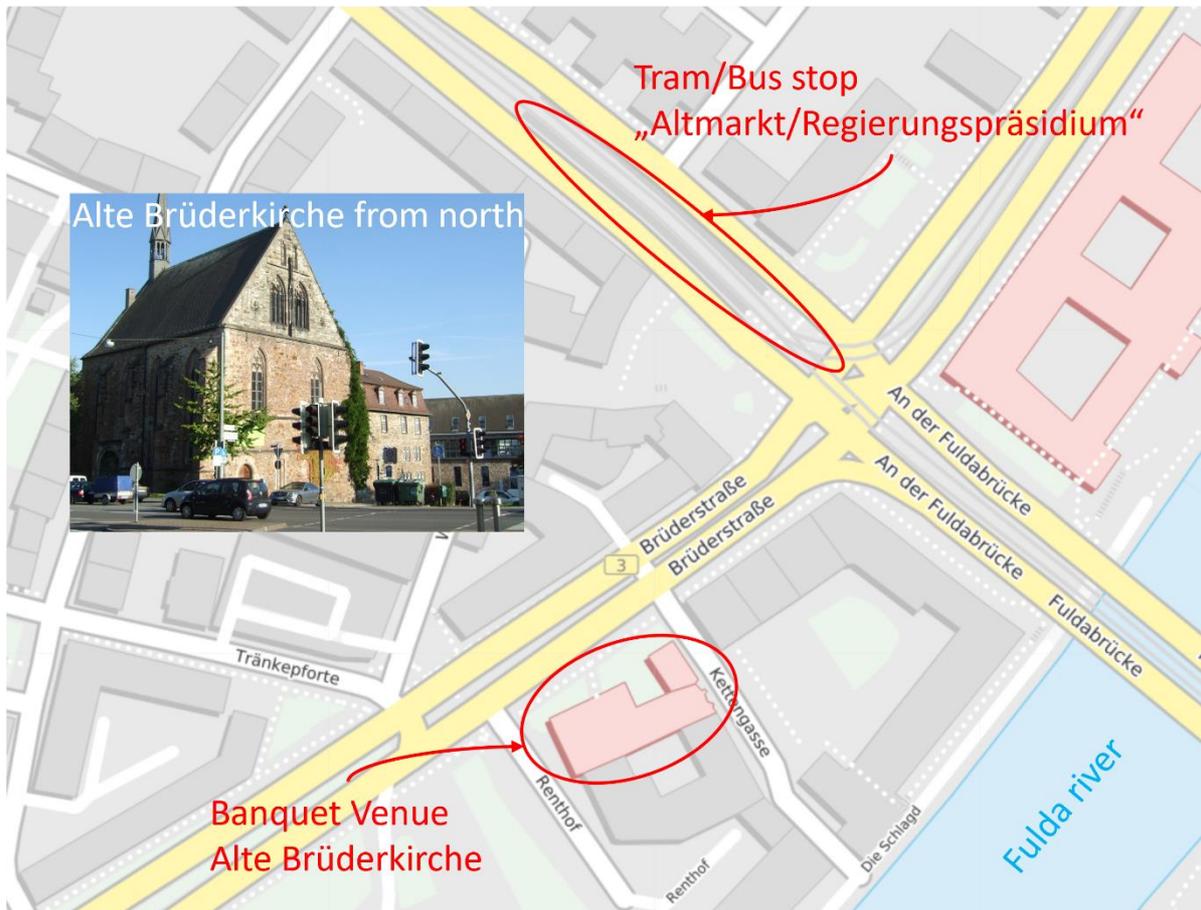
End of Workshop

20 Years CINSaT Banquet

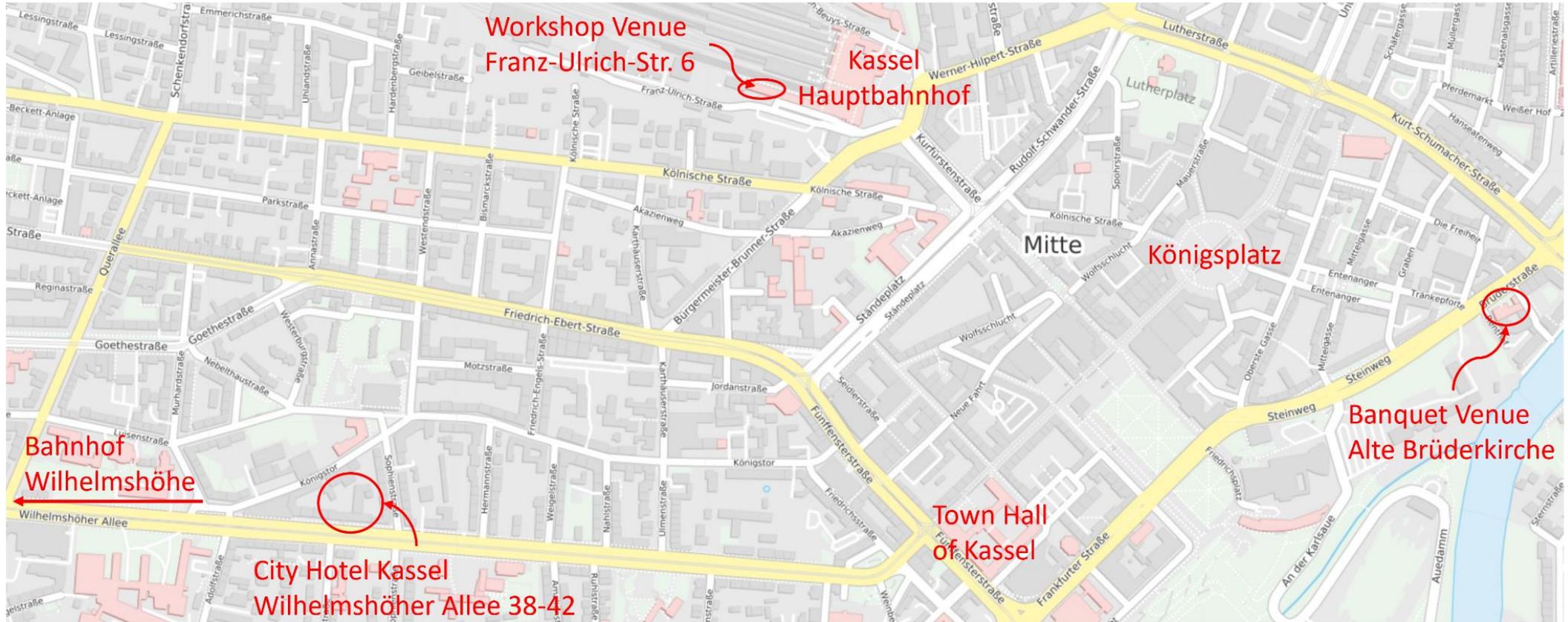
(Venue: Alte Brüderkirche, 34121 Kassel)

Banquet Program	
19:00 - 20:00	Reception accompanied with music from XYjazZ Bigband of the University of Göttingen
20:00 - 21:30	Banquet with Buffet
21:30 - 22:30	Concert of the XYjazZ Bigband of the University of Göttingen
23:00	End of Banquet

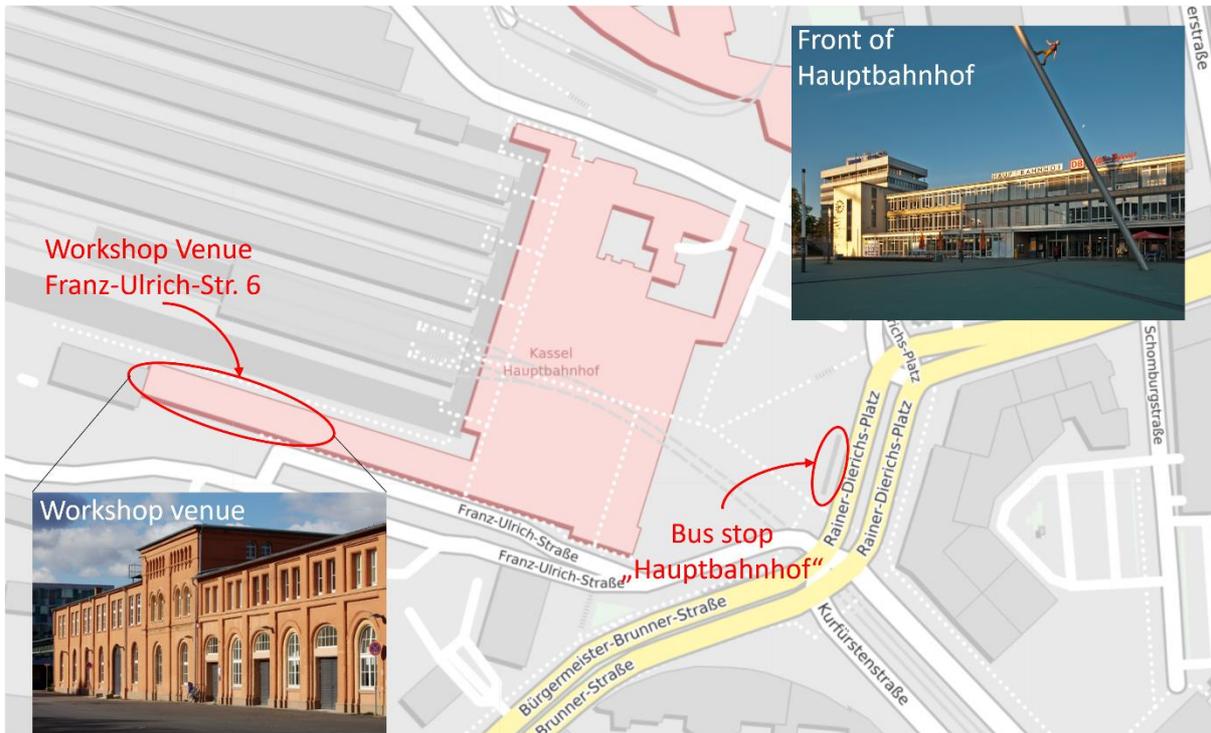
Alte Brüderkirche – Public Transport Stop „Altmarkt/Regierungspräsidium“



Innenstadt (Downtown) Kassel



Kassel Hauptbahnhof – Public Transport Stop „Hauptbahnhof“



City Hotel Kassel – Public Transport Stop „Weigelstraße“



Bergpark Wilhelmshöhe

