

Programme Summer School 17 “Solids4Fun”

3rd of July 2017 – 7th of July 2017

Schlosshotel Waidhofen an der Ybbs: <http://www.schlosseisenstrasse.at/>

Departure: Vienna, Karlsplatz, Hotel “Goldenes Lamm” 3rd of July (Monday) 7 am

Expected **Arrival:** Vienna, Karlsplatz, Hotel “Goldenes Lamm”, 7th of July (Friday) 6 pm

3rd of July 2017

“Presentation Techniques/ Time Management” - Masha Gabriele Ibeschitz & Co.

Start of lecture: 10.00 am

Lunch Break: 12.00 am – 01.30 pm

Coffee Break: 03.30: pm – 04.00 pm

End of lectures: 6.00 pm

4th of July 2017

Start: 9.00 am

Discussion/improvement of handbook of Solids4Fun

Coffee Break: 10.00: am – 10.30 am

Q & A for students of Solids4Fun

Lunch Break: 12.00 am – 01.30 pm

Hiking Tour: 2.30 -5.30 pm (Kronhobel, Hörlitzermühle; 7,8 km; rise: 363 m)

5th of July 2017

“Communication and Self-Management in Science (Publications, Posters)” – Hans Niemantsverdriet

Start of lecture: 9.00 am

1st Coffee Break: 10.00: am – 10.30 am

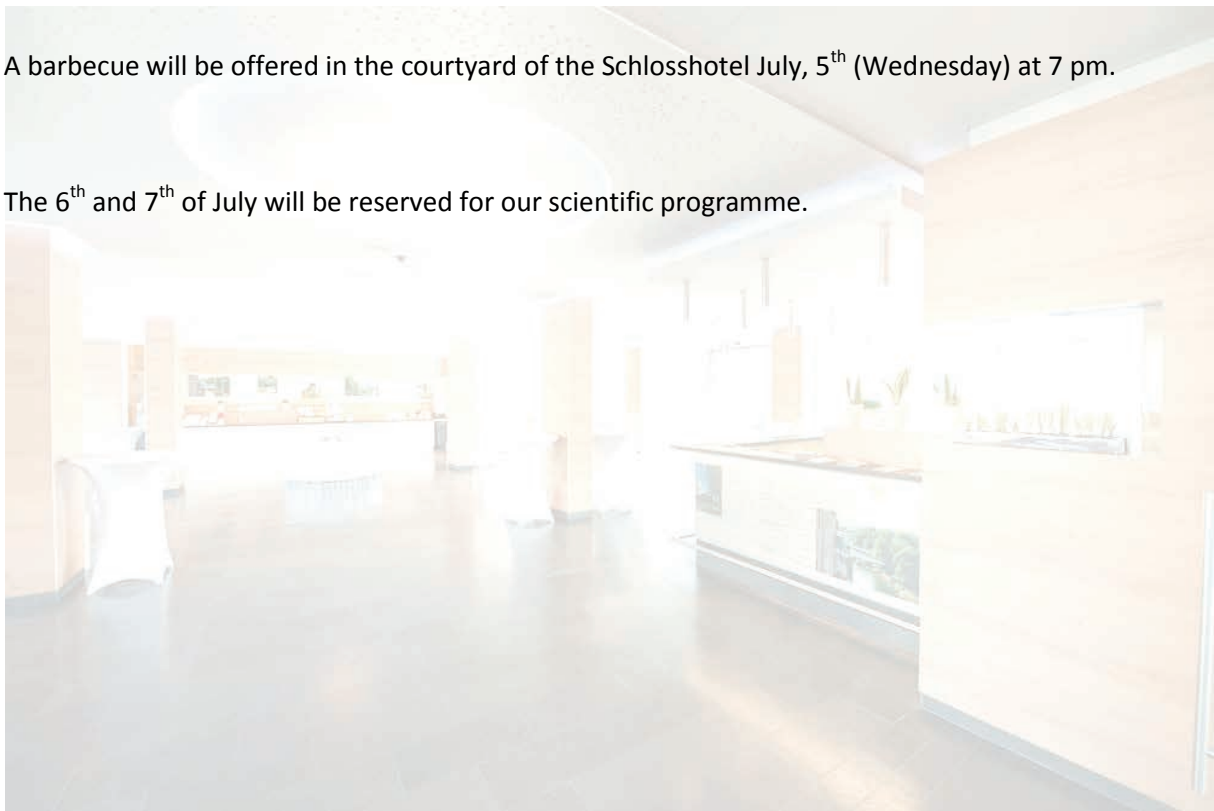
Lunch Break: 12.00 am – 01.30 pm

2nd Coffee Break: 03.30: pm – 04.00 pm

End of lectures: 6.00 pm

A barbecue will be offered in the courtyard of the Schlosshotel July, 5th (Wednesday) at 7 pm.

The 6th and 7th of July will be reserved for our scientific programme.



6th of July 2017

09.00 am - 10.00 am Hans Niemantsverdriet **Invited speaker**

Professor in Physical Chemistry of Surfaces at the Eindhoven University of Technology; Netherlands

SynCat@Beijing and Syngaschem BV, Netherlands

“Electrolysis and Fischer-Tropsch Synthesis in Solar Fuel Technology”

10.00 am - 10.20 am **Lukas Prochaska** – “Heavy fermion compound YbRh₂Si₂ films grown by molecular beam epitaxy”

10.20 am – 10.50 am 1st Coffee Break

10.50 am – 11.10 am **Sami Dzsaber** – “Kondo insulator to semimetal transformation tuned by spin-orbit coupling”

11.10 am – 11.30 am **Michael Wais** -"Solving the Boltzmann transport equation numerically"

11.30 am – 11.50 am **Sebastian Schönhuber**

11.50 am – 01.30 pm Lunch Break

01.30 pm - 02.30 pm Alexandre Blais **Invited speaker**

Professor in Quantum-Information Physics at Sherbrooke University, Canada

“Quantum Computing with Superconducting Qubits”

02.30 pm – 02.50 pm **Sarah Reisenbauer**

02.50 pm – 03.30 pm 2nd Coffee Break

03.30 pm – 03.50 pm **Georg Wachter** – “Ultra small high finesse cavities in silicon”

03.50 pm – 04.10 pm **Jia Wang**

04.30 pm – 05.30 pm Friedrich Stadler **Invited speaker**

Professor for History and Philosophy of Science Institute Vienna Circle (Head), Faculty of Philosophy and Education, University of Vienna, Austria

“Vienna Circles - Philosophy and Science in Cultural Contexts”

(<http://www.univie.ac.at/AusstellungWienerKreis/>)

7-9 pm Poster Presentations



7th of July/Talks

09.00 am - 10.00 am Damjan Pelc **Invited speaker**

Department of Physics, University of Zagreb, Croatia

“Nonlinear response and electronic correlations in complex materials”

10.00 am - 10.20 am **Stefan Smetazcek** – “Investigation of $\text{Li}_{(7-3x)}\text{Al}_x\text{La}_3\text{Zr}_2\text{O}_{12}$ garnets using LA-ICP-OES”

10.20 am – 10.50 am Coffee Break

10.50 am – 11.10 am **Maximilian Morgenbesser** – “Characterization of Fe-doped SrTiO_3 thin films”

11.10 am – 11.30 am **Alexander Schmid** – “Voltage and partial pressure dependent defect chemistry and oxygen exchange kinetics of $(\text{La,Sr})\text{FeO}_3$ ”

11.30 am – 11.50 am **Isabella Floss**

11.50 am – 01.30 pm Lunch Break

01.30 pm - 2.30 pm Gertjan Koster **Invited speaker**

Professor at the University of Twente, Faculty of Science & Technology, Enschede; Netherlands

“Crystal symmetry and properties at interfaces of epitaxial perovskites”

02.30 pm – 02.50 pm **Thomas Astner** – “Solid-state electron spin lifetime limited by phononic vacuum modes”

02.50 pm – 03.10 pm **Andreas Angerer** – “Non-linear dynamics in cavity quantum electrodynamics”

3.30 pm **departure** from Schlosshotel Waidhofen an der Ybbs

All students not presenting a talk but talking part in the summer school need to prepare a poster:

(Verena Pramhaas, Lorenz Bergen, Martin Kainz, Thomas Ruh, Matteo Roiaz, Jan Gospodaric, Igor Sokolovic, Lukas Weymann, Nevzat Yigit, Mahdi Kourehpazmahmudabadisirjan, Magdalena Bichler)

DK members

Ulrike Diebold Wed – Fr

Günther Rupprechter Wed – Fr

Johannes Majer Wed – Fr

Jürgen Fleig Wed - Fr

Peter Blaha Thu -Fr

Alexandre Blais vegetarian food

Jürgen Fleig vegetarian food

Maximilian Morgenbesser vegetarian food

Lukas Weymann vegetarian food

Sarah Reisenbauer cooks herself

