

The conference venue

The conference will take place in the
“Villa Eberhardt” in Ulm



Heidenheimer Str. 80, 89075 Ulm

3rd ELSICS workshop and Bunsen-Colloquium

October 4-6, 2023

Energy Landscapes and Structure in Ion Conducting Solids

Conference location

Villa Eberhardt

Heidenheimer Str. 80, 89075 Ulm,

Invited Speakers

Prof. Gerhard Dehm (Düsseldorf)

Prof. Jürgen Fleig (Wien)

Prof. Baptiste Gault (Düsseldorf)

Prof. Andreas Heuer (Münster)

Prof. Payam Kaghazchi (Jülich)

Prof. Manfred Martin (Aachen / Seoul)

Prof. Joachim Maier (Stuttgart)

Prof. Leo van Wüllen (Augsburg)

Prof. Harald Schmidt (Clausthal-Zellerfeld)

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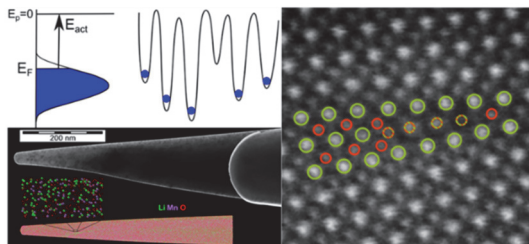
www.uni-marburg.de/fb15/ag-weitzel/

www.uni-marburg.de/en/fb15/for5065

Deadline for registration: August 15th, 2023

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Deutsche Bunsen-Gesellschaft,
University of Ulm
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The potential energy landscape of mobile ions in solid-state materials and the atomic scale structure are intimately interrelated. This interrelation and the resultant properties, e.g. the mobility of the ions, is of paramount interest in contemporary material science with direct applications in energy storage and conversion. Understanding the interplay of structure, energy landscape and ionic transport of ionic solids is of crucial importance for a knowledge-based development of improved and new functionalities of these materials.

The DFG Research Unit ELSICS (FOR 5065) has been founded in December 2020 with the goal to quantify the energy distribution of ionic sites in solids on the basis of atomically resolved structures and in conjunction with ionic transport properties with a truly concerted effort of experimental and theoretical research groups.

The 1st ELSICS workshop was held in Marburg (DE) in September 2021.

The 2nd ELSICS workshop was held in Göttingen (DE) in September 2022

The 3rd workshop will take place in Ulm (DE) in October 2023. This 3rd workshop will collect presentations from invited speakers as well as contributed presentations (both oral and posters).

Key topics for progress reports are

- Ion transport in amorphous, crystalline and polycrystalline solids
- Short range versus long-range transport as seen by NMR, CAIT and IS

- Energy landscapes in ion conducting solids: site energy distribution, populated vs. unpopulated sites
- Interrelation between atomically resolved structure and energy landscapes
- Predictive methods for correlating energy landscapes to material structure and function

Call for Abstracts

The program will include 8 invited speakers. There is the possibility to present contributed talks subject to the number of slots available (approximately 20). We also intend to hold a Poster-Session.

Dead Line for submission of abstracts: July 30th, 2023.
Allocation of oral slots will start from the 1st of July 2023.

For further details contact the chairperson (weitzel@chemie.uni-marburg.de. or elsics@uni-marburg.de) or the www page at <https://www.uni-marburg.de/en/fb15/for5065/meetings/3rd-elsics-workshop>.

Travel Information

Ulm can easily be reached by all means of transportation.

Arriving by plane

The nearest airports to Ulm are Stuttgart and Memmingen. There are regular train connections to Ulm from Stuttgart.

Arriving by train

Ulm can conveniently be reached by train. It has a stop of the German ICE train system (Deutsche Bahn).

Arriving by car

Ulm is located at the German Autobahnen A8 and A7. It is approximately 92 km from Stuttgart via the A8 or approximately 192 km from Würzburg via the A7