



International Workshop on
„Unconventional Superconductivity and Broken
Symmetry”,
Bochum, Germany, July 15-17, 2026

PROGRAM AND
USEFUL INFORMATION

Organizing Committee

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Local Organizing Committee

Steffen Bötzel, Claudia Wulf, Angelika de Matteis,
Ruhr- Universität Bochum

LOCATION AND DATES

The workshop will be held from July 15 – 17, 2026 in the Shanghai Room on the Campus of Ruhr University Bochum, Germany.

REGISTRATION

The registration desk will be open on Wednesday, July 15th, from 09:00 to 10:00.

TRAVEL INFORMATION

The workshop will take place at the International Convention Centre, Lecture Hall Shanghai of the Ruhr-Universität Bochum, Beckmannshof.

<https://www.ruhr-uni-bochum.de/universaal/raumuebersicht/beckmannshof.html.en>

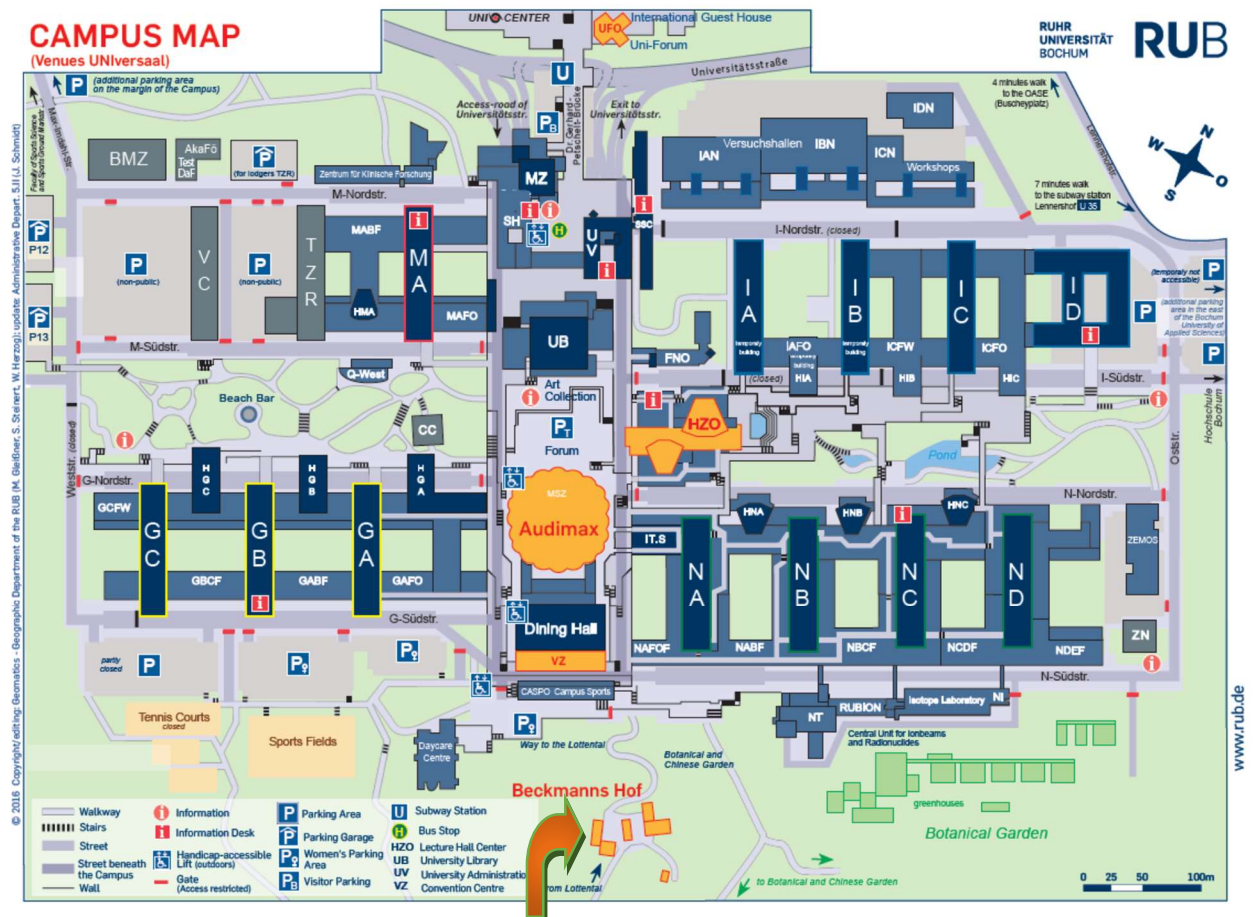
The center is located at the edge of university campus, close to Botanic Garden.

The easiest way to reach the Beckmannshof is to use line U35 from the Bochum Hbf (main station) (or from Rathaus Nord, depends which one is closer to your accommodation) in the direction of Hustadt till the station 'Ruhr-Universität'.

The campus will be located on your right (do not be confused with Uni Center, which is on the left). Once you reach the campus just continue straight through

the campus (passing by the Audimax, you should also see the big construction hole on your left) and then take either stairs or elevator towards the ground. Once on the ground (for orientation it should be Frauenparkplatz) look to your left, there should be a sign pointing towards the Beckmanshof and then just follow this sign.

Map of the Ruhr-Universität Campus



CONTACT INFORMATION

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SCIENTIFIC PROGRAM

Invited speakers will be allotted 30 minutes plus 10 min. questions, contributed talks are 20 minutes including 5 minutes questions.

Program

Wednesday July 15th, 2026

09:00-10:00 **Arrival, Registration & Opening and Coffee**

Session 1

Chairperson: I. Eremin

10:00-10:40 **Meng Wang (Sun Yat Sen University, Guanzhou)** “*Interlayer coupling enhanced superconductivity at 100 K in Nd-doped bilayer RP nickelates*”

10:40-11:20 **Hai-Hu Wen (Nanjing University)**, “*What determines the superconductivity in the infinite and bilayer bulk nickelate materials*”

11:20-12:00 **Yaomin Dai (Nanjing University)**, “*Highly Anisotropic Charge Dynamics in the Trilayer Nickelate La₄Ni₃O₁₀*”

12:00-12:20 **Steffen Bötzel (Ruhr-University Bochum)** “*Structural symmetry effects on the competition of density waves and superconductivity in bilayer nickelates*”

12:20-14:00 **Lunch (Buffet)**

Session 2

Chairperson: A. Böhm

14:00-14:40 **Veronika Sunko (Institute of Science and Technology, Vienna)** “*Magneto-optical detection of time-reversal symmetry breaking in antiferromagnets*”

14:40-15:20 **Elena Gati (Uni Frankfurt)** “*Elastocaloric probing and tuning of magnetic states with unconventional symmetry-breaking*”

15:20-15:40 **Coffee break**

15:40-16:20 **Götz Uhrig (Condensed Matter Theory, TU Dortmund)** “*Attractive Interaction in Quantum Antiferromagnets*”

16:20-17:00 **Igor Vinograd (LNCMI-Grenoble, CNRS)** “*Charge density wave fluctuations in the Weyl semimetal (TaSe₄)₂I*”

17:00-17:40 **Indanil Paul (CNRS Paris)**, “*Detecting Mirror Symmetry Breaking with Antisymmetric Raman Spectroscopy*”

Thursday July 16th, 2026

Session 3

Chairperson A. Kreyssig

09:00-9:40 **Taka Shibauchi (University of Tokyo)**, “*Pairing symmetry in the V-based Kagome superconductors*”

09:40-10:20 **Mehdi Frachet (Institut Néel, CNRS, Grenoble)**, “*A search for electronic nematicity in the Kagome superconductor CsV₃Sb₅*”

10:20-10:40 **Coffee break**

10:40-11:20 **Haoran Ji (Peking University)**, “*Time-reversal symmetry breaking in superconducting (La, Pr, Sm)₃Ni₂O₇ films*”

- 11:20-12:00 **Xianxin Wu (Institute of Theoretical Physics, Beijing)**, *“A Unified Itinerant Mechanism for Magnetism and Superconductivity in High-Tc Multilayer Nickelates*
- 12:00-12:20 **Lauro Braz (Ruhr-Uni Bochum & Universidade de Sao Paulo)**, *“Density waves in low-pressure bilayer nickelates”*

12:20-14:00 Lunch (Buffet)

Session 4

Chairperson: M. Scherer

- 14:00-14:40 **Alix McCollam (Cork University, Cork)**, *“Fermi Surface and Lifshitz Transitions of a Ferromagnetic Superconductor under External Magnetic Fields”*
- 14:40-15:20 **Andrey Chubukov (University of Minnesota, Twin Cities)**, *“Magnon-mediated superconductivity in a ferromagnet.*

15:20-15:40 Coffee break

- 15:40-16:20 **Ken Hashimoto (University of Tokyo)**, *“Mobility Spectrum Analysis of Broken Symmetries in Strongly Correlated Materials”*
- 16:20-17:00 **Zhe Wang (TU Dortmund)** *“Transient nonlinear responses of terahertz field-driven superconductors ”*
- 17:00-17:40 **Kosuke Ishida (University of Tokyo)**, *“Probing Correlated Physics via Stress-Strain Relationships”*

Friday July 17th, 2026

Session 5

Chairperson: H.-H. Wen

- 09:00-9:40 **Peter Hirschfeld (University of Florida, Gainesville)**, *Stoichiometric FeTe is a superconductor: implications for Fe-chalcogenide phase diagram ”*
- 09:40-10:20 **Vadim Grinenko (T.D. Lee Institute, Shanghai)**, *“Flux fractionalization, unquantized vortices and emergent quadrupling condensate in the Ba1-xKxFe2As2 system”*
- 10:20-10:40 **Maxi Buthenhoff (Institute of Science Tokyo)**, *“Quantum geometry in flat-band superconductors”*

10:20-10:40 Coffee break

- 10:40-11:20 **Dao-Xin Yao (Sun Yat Sen University, Guanzhou)**, *“Models and Superconductivity of Pure and Hybrid RP Nickelate Superconductors”*
- 11:20-11:45 **Frank Lechermann (Ruhr-University Bochum)**, *“Correlated electrons in bilayer nickelates: from La3Ni2O7 to La3Ni2O6“*
- 11:45-12:00 **Closing remarks**

12:00-13:30 Lunch (Buffet) and Departure