

Scientific Highlights - Topics and Presenters of the SAB Poster Session

HZDR:

- Frank Stefani: „Liquid metal experiments on paradigmatic solar physics phenomena“
- Tobias Dornheim: „Combining AI and HPC to advance Matter under Extreme Conditions Research“

FZJ:

- Margarita Kruteva: „Passive Macromolecular Translocation Mechanism through Lipid Membranes“
- Werner Schweika: „Chiral Spin Liquid Ground State in YBaCo₃FeO₇“

HZB:

- Anette Pietzsch: „Potential energy surfaces of water mapped for the first time“
- Peter Feuer-Forson (Gregor Hartmann/Gesa Götzke): „New software based on Artificial Intelligence helps to interpret complex data “

KIT:

- Ralph Engel/Kathrin Valerius: „Probing local overdensities of cosmic relic neutrinos“ (KATRIN results 2022)
- Anke-Susanne Müller: „Phase space tomography of ultrarelativistic non-equilibrium many-electron systems“

DESY:

- Jean Damascene Mbarubucye: „H.E.S.S. follow-up observations of GRB221009A, the brightest gamma-ray burst ever detected“
- Heshmat Noei: “Photoinduced Dynamics at the Water=TiO₂/101P Interface“

Hereon:

- Christina Krywka: „Phase contrast nanotomography for biomedical and biomaterials applications“
- Guilherme Abreu Faria: „Depth Resolved Residual Stress Measurements in Metallic Components “

GSI:

- Zsuzsanna Major: „Laser-driven x-ray diagnostics to study matter under extreme conditions“
- Andreas Bauswein: „Probing fundamental physics with neutron star mergers“