

DFG-Heinz Maier-Leibnitz-Prize Online Conference 2024

“From Quantum Physics to Quantum Technologies – Approaches in Germany and Japan”

In quantum physics researchers and scientists deal with very complex problems concerning the state of matter or the structure of the universe. But they might also ask what a donut and a black hole have in common.

Research often asks surprising questions and is always an endeavor into the unknown. And as such it might lead to very new approaches and solutions.

In our upcoming online conference two researchers from Japan and Germany will introduce their cutting-edge research in quantum physics and discuss how they contribute to innovation in fields like materials for medical therapies, computing or energy. Research in Quantum Physics might not only lead to a “Theory of Everything” but also to very practical new technological applications.

Date: October 25, 2024 (Fr)

Time: 9:30 – 11:00 (CEST) / 16:30 – 18:00 (JST)

Organizers: Deutsche Forschungsgemeinschaft (DFG, German Research Foundation), Deutsches Wissenschafts- und Innovationshaus Tokyo (DWIH Tokyo, German Centre for Research and Innovation Tokyo), Graduate School of Advanced Science and Engineering, Hiroshima University

Language: English / Japanese (with simultaneous translation)

Programme

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| 09:30 (CEST) / 16:30 (JST) | Opening: Dr. Ingrid Krüßmann , Director, DFG Office Japan; Deputy, International Affairs; Head, Sino-German Center for Research Promotion, Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) |
| 09:35 (CEST) / 16:35 (JST) | Keynote Talk: “The Quantum Frontier”
Dr. Tobias Meng , Group Leader, Emmy Noether Junior Research Group Quantum Design, Technische Universität Dresden |
| 09:55 (CEST) / 16:55 (JST) | Keynote Talk: “Towards Unifying Quantum Physics and General Relativity from Electric Circuits”
Dr. Haruna Katayama , Assistant Professor, Graduate School of Advanced Science and Engineering, Hiroshima University |
| 10:15 (CEST) / 17:15 (JST) | Moderated talk with Dr. Tobias Meng and participants
“Future and Challenges of Quantum Technologies and International Cooperation” |
| 11:00 (CEST) / 18:00 (JST) | Closing: Axel Karpenstein , Director, Tokyo Office of the German Academic Exchange Service (DAAD); Director, German Centre for Research and Innovation Tokyo (DWIH Tokyo) |

MC: Myra Bauersachs, Deputy Director (Strategy, Events, PR), DFG Office Japan, Deutsche Forschungsgemeinschaft (DFG, German Research Foundation)