RIKEN

Prof. Yasunobu Nakamura
Director, RIKEN Center for Quantum Computing

Netherlands

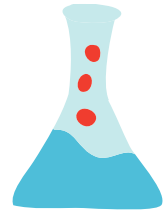
RIKEN - Outline

- A comprehensive national research institute, pursuing frontier science, creating value, and fostering talent
- Established in 1917 (Europe Office since 2018 -)
- Cluster for Pioneering Research (curiosity-driven)
- Strategic research centres, including
  - Center for Quantum Computing (RQC)
  - Center for Advanced Photonics (RAP)
  - Center for Emergent Matter Science (CEMS)
- RIKEN Innovation Co. Ltd.
- Companies originated from RIKEN: Ricoh Co. Ltd., etc.
- Tackling global challenges

3500 staff
1900+ Scientists

~€750M Budget

13 Research Centres



500+ Labs

8 Facilities

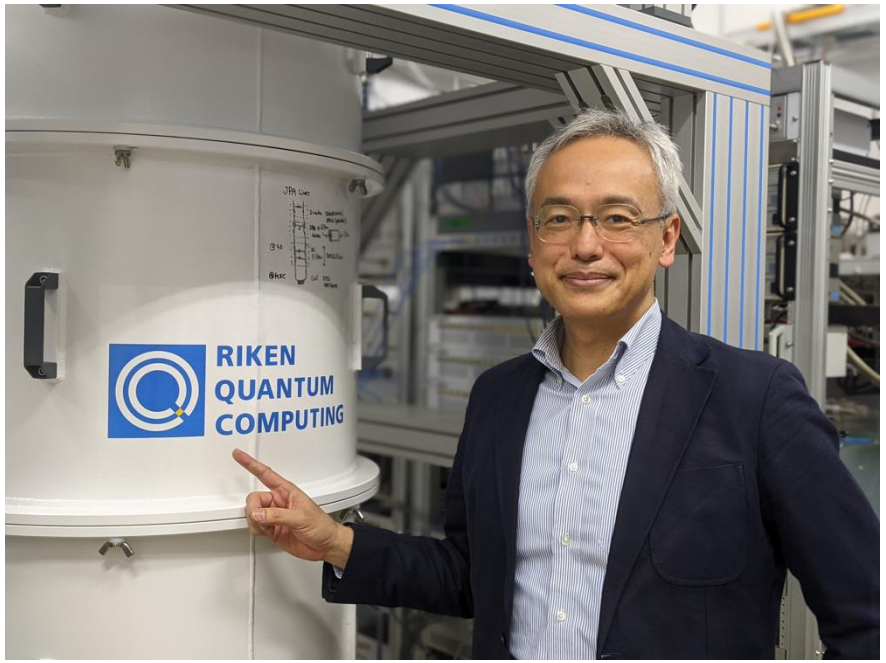
273 International Collaborations

Netherlands

RIKEN - Relation NL

- Previous collaboration agreement with Vrije Universiteit Amsterdam on developmental biology (expired in September 2020)
- Takuzo Aida (CEMS) has strong connection with Eindhoven University of Technology on supramolecular polymers, Member of the Royal Netherlands Academy of Arts and Science (2020)
- Establishing connection with NARO representative at Wageningen University (including potential application of photonics in agricultural sciences)
- Interests in the potential cooperation with the NL and Europe in general on quantum technologies and related research fields (identification of strong cases and suitable mechanisms needed)

- RQC (April 2021 -): HQ of Quantum Technology Innovation Hubs
- Superconducting quantum computer
- Quantum information science and technology (optical quantum computing, Si spin qubits, ultracold atoms, etc.), including theories



Netherlands

理化学研究所 量子コンピュータ研究センター

RIKEN Center for Quantum Computing (RQC)

2021.4~

RQC researchers

RIKEN QUANTUM COMPUTING


Eisuke Abe


JawShen Tsai


Seigo Tarucha

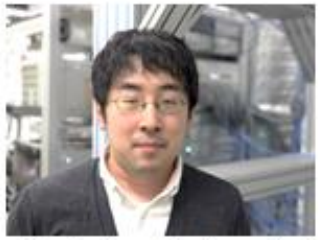

Akira Furusawa


Shintaro Sato


Erika Kawakami

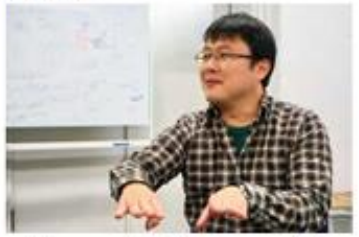

Yasunobu Nakamura


Shinichi Yorozu


Yutaka Tabuchi


Daniel Loss


Takeshi Fukuhara


Atsushi Noguchi


Franco Nori

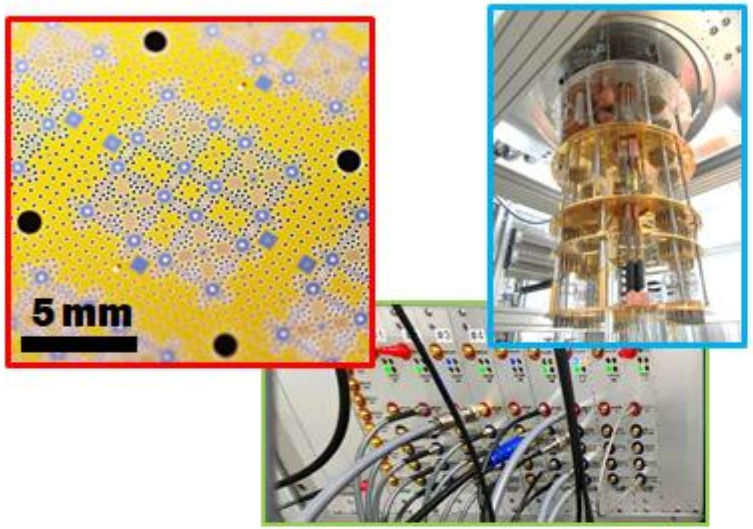

Keisuke Fujii


Seiji Yunoki

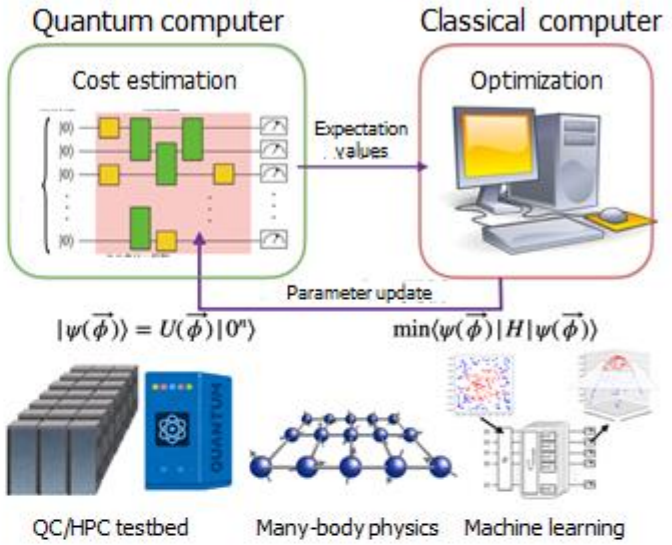
RQC research activities

RIKEN QUANTUM COMPUTING

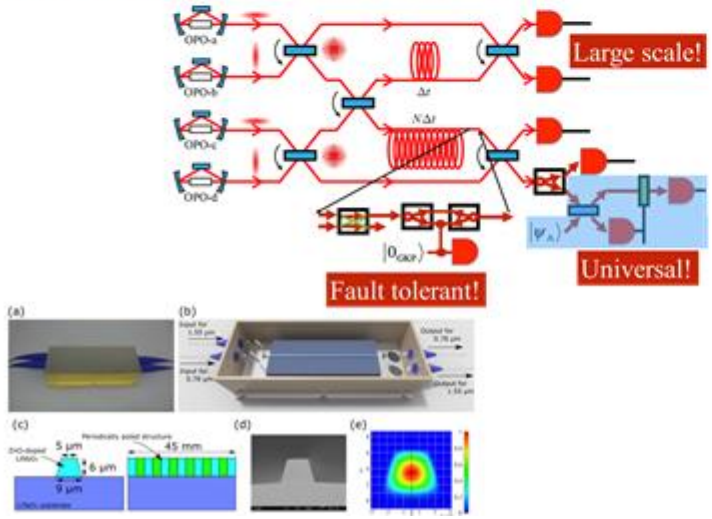
Superconducting quantum computing



Quantum computing theory



Optical quantum computing



Other quantum platforms