

Microwave Amplifiers in the Quantum Regime

Sunday, June 1, 2025 - Friday, June 6, 2025

Les Houches School of Physics

Scientific Program

1 Next Generation TWPA's: novel circuits & operation protocols

Invited speakers:

Philippe Campagne-Ibarcq, INRIA Paris
Peter Day, Caltech, US
Emanuele Enrico, INRIM, Torino, Italy
Logan Howe, NIST, Boulder, US
Archana Kamal, University of Massachusetts, Lowell (MA), US
Boon Kok Tan, Oxford, UK
Maxime Malnou, NIST, Boulder, US
Kevin O'Brien, Massachusetts Institute of Technology, US

2 Basic Science and Quantum Optics with TWPA's

Invited speakers:

Haruna Katayama, Hiroshima University; Japan
Konrad Lehnert, JILA, US
Federica Mantegazzini, Fondazione Bruno Kessler, Povo, IT
Sorin Paraoanu, Aalto University, Finland
Gary Steele, Delft, NL

3 Resonant Parametric Amplifiers

Invited speakers:

Joe Aumentado, NIST, Boulder, US
Pasquale Scarlino, EPFL, Switzerland
Michael Hatridge, Yale University, US
Florent Lecocq, NIST, Boulder, US
Laure Mercier de Lépinay, Aalto University, Aalto, FI
Rajamani Vijayaraghavan, TIFR Mumbai, India

4 Amplifiers and Quantum Information Processing in Research

Invited speakers:

Yvonne Gao, National University of Singapore
Benjamin Huard, ENS Lyon, France
Angela Kou, University of Illinois at Urbana-Champaign, US
Mollie Schwartz, Massachusetts Institute of Technology, US
Giovanna Tancredi, Chalmers University of Technology, Sweden

5 Amplifiers and Quantum Information Processing in Industry

Invited speakers:

Baleegh Abdo, IBM Quantum, New York, US

Sisira Kanhirathingal, Rigetti Computing, Berkeley (CA), US

Ofer Naaman, Google Quantum AI

Visa Vesterinen, Arctic Instruments

A. Mert Bozkurt, QuantWare