GDR MESO Réunion Plénière 23 au 26 novembre 2020

Posters

Qubits hybrides, semiconducteurs et électrodynamique quantique

(1)- 1,2,3...many photons emitted by a Josephson junction strongly coupled to a microwave resonator
Gerbold Ménard, Iouri Mukharsky, Ambroise Peugeot, Chloé Rolland, Denis Vion, Philippe Joyez, Patrice Roche, Daniel Esteve, Carles Altimiras, Fabien Portier

(2)-Graphene based quantum superconducting circuits
Guilliam Butseraen, François Lefloch, Julien Renard

(3)-Multiplexed photon number measurement using a superconducting qubit
Antoine Essig, Quentin Ficheux, Théau Peronnin, Nathanael Cottet, Raphaël Lescanne, Alain Sarlette, Pierre Rouchon, Zaki Leghtas, Benjamin Huard

(4)-Squeezing of edge_magnetoplasmon states in Quantum Hall edge channels
Hugo Bartolomei, Rémi Bisognin, Erwann Bocquillon, Antonella Cavanna, Ulf Gennser, Yong Jin, Jean-Marc Berroir, Bernard Plaçais, Gwendal Feve

(5)-Superradiant Quantum Phase transition in Rashba and Zeeman Cavity QED
Guillaume Manzanares

(6)-Ultrafast charging in a two-photon Dicke quantum battery
Alba Crescente

Transport, transfert d'énergie, réactivité chimique en cavité plasmonique

(7)-Collisional interferometry of levitons in quantum Hall edge channels at $\nu=2$
Giacomo Rebora, Matteo Acciai, Dario Ferraro, Maura Sassetti

(8)-Ferromagnetic instability in ensembles of gold nanoparticles
Gaetan Percebois

(9)-Heat Conductance in a Quasi-ballistic InAs Nanowire
danial MAJIDI, Mukesh Kumar, Lars Samuelson, Herve Courtois, Clemens Winkelmann, Ville F. Maisi

(10)-Polaritons in periodic chains of metallic nanoparticles: a QED approach
Thomas Allard

Systèmes 2D

(11)-Demonstration of PdSe2 van der Waals MISFETs
Romaric Le Goff, Zheng Liu, Takashi Taniguchi, Kenji Watanabe, Christophe Voisin, Jean-Marc Berroir, Erwann Bocquillon, Gwendal Fève, Jean Chazelas, Emmanuel Baudin, Bernard Placais

(12)-Investigating Ising and Triplet Superconductivity in few-monolayer NbSe2
Marko Kuzmanović, Tom Dvir, David Möckli, Stefan Ilić, Julia Meyer, Manuel Houzet, Marco Aprili, Maxim Khodas, Hadar Steinberg, Charis Quay

(13)-Robust electronic states due to inhomogeneous spin-orbit couplings in graphene heterostructure
Jean-Baptiste Touchais, Pascal Simon, Andrej Mesaros

(14)-Scanning gate microscopy of a pn junction in graphene
Marco Guerra

(15)-Thermal transport in quantum Hall states in graphene
Raphaëlle Delagrange, Gaëlle Le Breton, Myunglae Jo, Takashi Taniguchi, Kenji Watanabe, Preden Roulleau, Patrice Roche, François Parmentier

Transport quantique d'électrons et de chaleur

(16)-Electric field control of photonic heat transport in a superconducting circuit
Olivier Maillet, Diego Subero, Joonas Peltonen, Dmitry Golubev, Jukka Pekola

(17)-Influence de l'anomalie chirale sur le transport non-local des semi-métaux de Weyl
Sergueï Tchoumakov, Bogusz Bujnowski, Jérôme CAYSSOL, Adolfo Grushin

Supraconductivité mésoscopique, Qubits hybrides, semiconducteurs et électrodynamique quantique

(18)-Implementing low-impedance resonators resilient to magnetic field and dielectric losses for nanoscale paramagnetic resonance detection
Arne Bahr, benjamin huard, Audrey Bienfait

(19)-Robust supercurrent in graphene Josephson junctions assisted by strong spin-orbit interaction
NianJheng WU, Taro Wakamura

(20)-Transconductance quantization in a topological Josephson tunnel junction circuit
Léo Peyruchat, Joël Griesmar, Jean-Damien Pillet, Çağlar Girit

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