

21 September, 2016 – Day 1 (Wednesday)

Morning session: OPEN to the PUBLIC

Venue – Department of Economics, University of Gdańsk, Armii Krajowej 119 Street, Sopot

09.45 – 10.00	Opening address
10.00 – 10.55	Chair: Marek Kuś Charles H. Bennett , IBM Watson Research Center, USA <i>How disequilibrium enables classicality, complexity, and science</i>
10.55 – 11.50	Wojciech H. Żurek , Los Alamos National Laboratory, USA <i>Decoherence and the Quantum Theory of the Classical</i>

END of the OPEN session

Transfer to the second venue of the conference by the invited guests (walking distance - 10 minutes' walk to KCIK)

Afternoon session: for the invited guests only

Venue – National Quantum Information Centre, Gen. Andersa 27 Street, Sopot

12.00 – 12.30	Conference Registration
12.00 – 12.45	Coffee Break
12.45 – 13.15	Chair: Jakub Rembieliński Marek Żukowski , University of Gdańsk, Poland <i>Stronger entanglement conditions based on redefined Stokes parameters for quantum optical fields</i>
13.15 – 13.45	Lajos Diosi , Wigner Research Center for Physics, Hungary <i>Equating Quantum and Thermodynamic Entropy Productions</i>
13.45 – 15.00	Lunch
15.00 – 15.30	Chair: Roderich Tumulka C. Jess Riedel , University of Waterloo, Canada <i>Where are the branches in a many-body wavefunction?</i>
15.30 – 16.00	Michael Zwolek , Oregon State University, USA <i>Amplification, Redundancy, and the Quantum Chernoff Information</i>
16.00 – 16.30	Coffee Break
16.30 – 17.00	Chair: Roderich Tumulka Jarosław Korbicz , Gdańsk University of Technology, Poland <i>Spectrum broadcast structures and quantum origins of objectivity</i>
18.30	Dinner

22 September, 2016 – Day 2 (Thursday)

Morning session: OPEN to the PUBLIC

Venue – Department of Economics, University of Gdańsk, Armii Krajowej 119 Street, Sopot

10.00 – 10.55	Chair: Caslav Brukner Phillippe Grangier , Institute of Optique Graduate School, France <i>Contexts, Systems and Modalities: a new ontology for quantum mechanics</i>
10.55 – 11.50	Mariusz Puchalski , University of Warsaw, Poland <i>Precision tests of fundamental interactions with H2</i>

END of the OPEN session

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Afternoon session: for the invited guests only

Venue – National Quantum Information Centre, Gen. Andersa 27 Street, Sopot

12.00 – 12.45	Coffee Break
12.45 – 13.15	Chair: Lajos Diosi Renato Renner , ETH Zurich, Switzerland <i>Single-world interpretations of quantum theory cannot be self-consistent</i>
13.15 – 13.45	Ravishankar Ramanathan , National Quantum Information Centre, University of Gdańsk, Poland <i>Randomness generation against causal eavesdroppers using contextuality and non-locality</i>
13.45 – 15.00	Lunch
15.00 – 15.30	Chair: Dariusz Chruściński Roger Colbeck , University of York, United Kingdom <i>Entropic constraints on causal structures</i>
15.30 – 16.00	Adan Cabello , University of Sevilla, Spain <i>Approaching Tsirelson's bound from theory and experiment</i>
16.00 – 16.30	Coffee Break
16.30 – 17.00	Chair: Dariusz Chruściński Bob Coecke , University of Oxford, United Kingdom <i>Picturing Quantum Processes</i>

23 September, 2016 – Day 3 (Friday)

Morning session: OPEN to the PUBLIC

Venue – Department of Economics, University of Gdańsk, Armii Krajowej 119 Street, Sopot

10.00 – 10.55	Chair: Karol Życzkowski Giacomo Mauro D'Ariano , University of Pavia, Italy <i>Hacking the algorithm of the tapestry of reality</i>
10.55 – 11.50	Caslav Brukner , University of Vienna, Austria <i>Quantum theory from within a quantum reference frame: how the world look like if you were a quantum particle</i>

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Afternoon session: for the invited guests only

Venue – National Quantum Information Centre, Gen. Andersa 27 Street, Sopot

12.00 – 12.45	Coffee Break
12.45 – 13.15	Chair: C. Jess Riedel Jakub Rembieliński , University of Łódź, Poland <i>Photon and the Preferred Frame</i>
13.15 – 13.45	Marco Piani , University of Strathclyde, United Kingdom <i>Generic emergence of classical features in quantum Darwinism</i>
13.45 – 15.00	Lunch
15.00 – 15.30	Chair: Michael Zwolek Roderich Tumulka , Rutgers University, USA <i>Probability Distribution of the Time at Which an Ideal Detector Clicks</i>
15.30 – 16.00	Andrzej Grudka , Adam Mickiewicz University in Poznań, Poland <i>Do black holes clone quantum information?</i>
16.00 – 16.30	Coffee Break
16.30 – 16.45	Conference Summary and closing address given by the Chair