

## 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	<b>Opening address</b>
10.00 – 10.55	Chair: <b>Marek Kuś</b> <b>Charles H. Bennett</b> , IBM Watson Research Center, USA <i>How disequilibrium enables classicality, complexity, and science</i>
10.55 – 11.50	<b>Wojciech H. Żurek</b> , 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	<b>Conference Registration</b>
12.00 – 12.45	Coffee Break
12.45 – 13.15	Chair: <b>Jakub Rembieliński</b> <b>Marek Żukowski</b> , University of Gdańsk, Poland <i>Stronger entanglement conditions based on redefined Stokes parameters for quantum optical fields</i>
13.15 – 13.45	<b>Lajos Diosi</b> , Wigner Research Center for Physics, Hungary <i>Equating Quantum and Thermodynamic Entropy Productions</i>
13.45 – 15.00	Lunch
15.00 – 15.30	Chair: <b>Roderich Tumulka</b> <b>C. Jess Riedel</b> , University of Waterloo, Canada <i>Where are the branches in a many-body wavefunction?</i>
15.30 – 16.00	<b>Michael Zwolek</b> , Oregon State University, USA <i>Amplification, Redundancy, and the Quantum Chernoff Information</i>
16.00 – 16.30	Coffee Break
16.30 – 17.00	Chair: <b>Roderich Tumulka</b> <b>Jarosław Korbicz</b> , 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: <b>Caslav Brukner</b> <b>Phillippe Grangier</b> , Institute of Optique Graduate School, France <i>Contexts, Systems and Modalities: a new ontology for quantum mechanics</i>
10.55 – 11.50	<b>Mariusz Puchalski</b> , 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: <b>Lajos Diosi</b> <b>Renato Renner</b> , ETH Zurich, Switzerland <i>Single-world interpretations of quantum theory cannot be self-consistent</i>
13.15 – 13.45	<b>Ravishankar Ramanathan</b> , 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: <b>Dariusz Chruściński</b> <b>Roger Colbeck</b> , University of York, United Kingdom <i>Entropic constraints on causal structures</i>
15.30 – 16.00	<b>Adan Cabello</b> , 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: <b>Dariusz Chruściński</b> <b>Bob Coecke</b> , 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: <b>Karol Życzkowski</b> <b>Giacomo Mauro D'Ariano</b> , University of Pavia, Italy <i>Hacking the algorithm of the tapestry of reality</i>
10.55 – 11.50	<b>Caslav Brukner</b> , 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>

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