Wednesday July 3 (Collegium Novum)

**13:50 - 14:00**

Welcoming and Opening the Workshop

Marek Zaionc (Jagiellonian University, Poland) and Wojtek Szpankowski (Purdue, USA)

**14:00 -18:00** Chair: Jakub Kozik (Jagiellonian University, Poland)

**14:00-15:00**

Peter Shor (Massachusetts Institute of Technology, USA)

*"Quantum Computing"*

**15:00 - 16:00**

Vijay Vazirani (University of California, Irvine, USA)

"*Cardinal-Utility Matching Markets: From Tractability to Intractability ... and Back!"*

**16:00-- 17:00**

Andrew Barron (Yale, USA)

“Log concave coupling for sampling from neural net posterior distributions “

**17:00-17:30**

Coffee Break

**17:30 - 18:00**

Ten minute walk to Collegium Maius

**18:00 - 19:00** (**Collegium Maius**) Chair: Marek Zaionc (Jagiellonian University, Poland)

Wojciech Szpankowski (Purdue, USA)

"*Structural, Temporal, and Contextual Information*"

**19:00 – 21:00**

Reception in Collegium Maius

Thursday July 4 (Collegium Novum)

**9:00 - 12:00** Chair: Bartek Bosek(Jagiellonian University, Poland)

**9:00-10:00**

Venkat Anantharam (Berkeley, USA)

*"Distributed information"*

**10:00-11:00**

Alex Gray (IBM, USA)

"*Neuro-Symbolic AI: The Empirical and Theoretical Advantage of Logic-like Learning Models"*

**11:00-12:00**

Shuki Bruck (Caltech, USA)

*"The Evolution of Information Systems: From Life to Artificial Intelligence"*

**12:00-13:30**

lunch (on your own)

**13:30-18:00** Chair: Marcin Kozik (Jagiellonian University, Poland)

**13:30 - 14:30**

David Ellerman (University of Ljubljana, Slovenia)

*"New Foundations for Information Theory: Logical Entropy and Shannon Entropy"*

**14:30-15:30**

Venkat Guruswami (Berkeley, USA)

*"Polymorphism minions and promise constraint satisfaction: A gateway between information and computation*"

**15:30 - 16:00**

Coffee Break

**16:00-18:00** Chair: Katarzyna Grygiel (Jagiellonian University, Poland)

**16:00-17:00**

Piotr Sankowski (Warsaw University, Poland)

*“Analyzing the Influence of Language Model-Generated Responses in Mitigating Hate Speech”*

**17:00-18:00**

Alon Orlitsky (University of California, San Diego, USA)

"*Profile Maximum Likelihood: Optimal, Universal, Plug-and-Play, Functional Estimation"*

**19:00** Dinner "U Wierzynka"

Friday, July 5 (Collegium Novum)

**9:00- 12:00** Chair: Piotr Micek (Jagiellonian University, Poland)

**9:00-10:00**

Pawel Idziak (Jagiellonian University, Poland)

"Complexity of solving equations - kith and kin"

**10:00-11:00**

Negar Kiyavash (EPFL, Switzerland)

*"Causal identification: state of the art and challenges "*

**11:00-12:00**

Joachim Buhmann (ETH, Switzerland)

*"Why is it difficult to recover a planted sub-hypergraph?"*

**12:00-14:00**

lunch (on your own)

**14:00 - 17:00** Chair: Krzysztof Turowski (Jagiellonian University, Poland)

**14:00-15:00**

Jean-Claude Belfiore (Huawei, France)

*"Building a theory of semantic information: spaces of information"*

**15:00-16:00**

Avi Wigderson (Institute for Advanced Study, Princeton, USA)

"*The Value of Errors in Proofs"*

**16:00 - 1700**

Alberto Luigi Sangiovanni-Vincentelli (Berkeley, USA)

*"Platform and Contract-based design: two complementary system design platforms"*