

THE OPENING

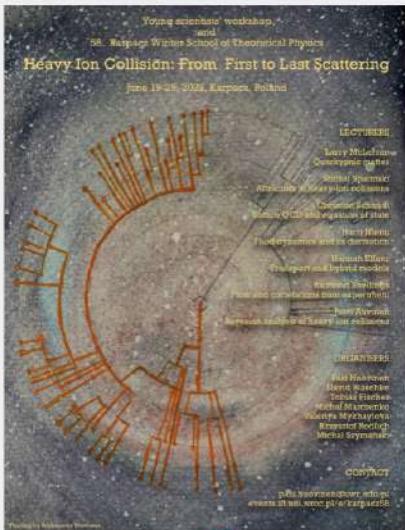
Prof. Dr. hab. David Blaschke

Vice Director for Research, Institute of Theoretical Physics, University of Wrocław

Young scientists' workshop and 58. Karpacz Winter School of Theoretical Physics

COMING !!!

#



Karpacz: June 19 - 25, 2022

Heavy Ion Collision: From First to Last Scattering

Organizers: Pasi Huovinen, David Blaschke, Tobias Fischer, Michał Marczenko, Valeriya Mykhaylova, Krzysztof Redlich, Michał Szymanski

Institutions: Institute of Theoretical Physics, University of Wrocław



KARPACZ WINTER SCHOOLS OF THEORETICAL PHYSICS 1964 – 2009



University of Wrocław

KARPACZ WINTER SCHOOLS OF THEORETICAL PHYSICS

- established in 1964
- important meeting point of physicists from East and West during times of “iron curtain”
- history described in booklet (first 45 Schools)
 - few hardcopies available ...
 - online:
<http://www.ift.uni.wroc.pl/conferences/>
- topics according to divisions at IFT UW^r
- recent history (2010 – 2022) ...

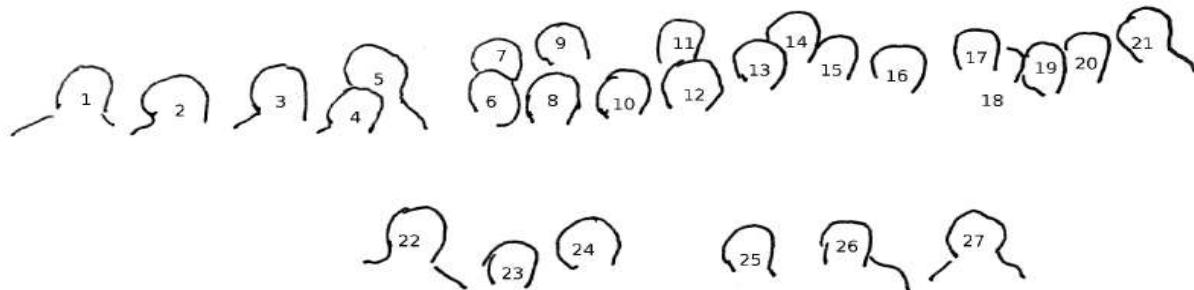


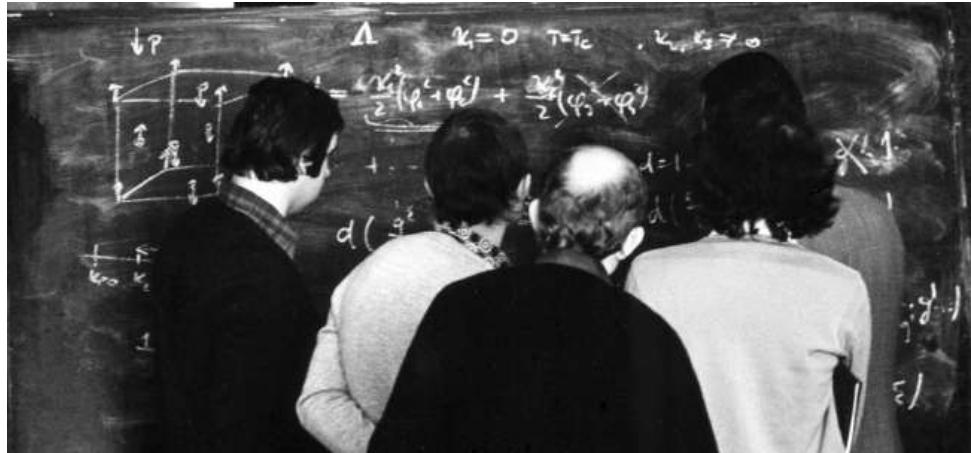
Lecturers and Participants of the First Winter School 1964

Director: R.S. Ingarden

1. A. Pawlikowski; 2. ?; 3. A. Mysliwski;
4. ?; 5. J. Rzewuski; 6. N. Sznajder; 7. ?;
8. Mrs. J. Wess; 9. J. Tarski;
10. D. Galasiewisz; 11. A. Kossakowski;
12. Z. Galasiewicz; 13. R.S. Ingarden;
14. S. Tatur; 15. J. Namyslowski;
16. H. Bojarska; 17. Z. Bojarski;
18. J.T. Lopuszanski; 19. B. Fechner;
20. M. Steslicka; 21. H. Stachowiak;
22. J. Wess; 23. J. Przystawa;
24. W. Karwowski; 25. A. Pekalski;
26. F. Klejn; 27. W.J. Zietek;
28. W. Wasilewski

(to be corrected)





Excellent Atmosphere ...

During Lectures, Discussions,
and in the free time in the evenings



KARPACZ WINTER SCHOOLS OF THEORETICAL PHYSICS

- 2010: Quantum Dynamics and Information: Theory and Experiment (Robert Olkiewicz)
- 2011: Simple Models for Complex Systems (Katarzyna Sznajd-Weron)
- 2012: Cosmic Matter in Heavy-Ion Collision Laboratories (Ludwik Turko)**
- 2013: Cosmology and non-equilibrium statistical mechanics (Zbigniew Haba)
- 2014: Quantum Criticality in Condensed Matter: Phenomena, Materials and Ideas in Theory and Experiment (Janusz Jedrzejewski)
- 2015: Irreversible dynamics: nonlinear, nonlocal and non-Markovian manifestation (Lech Jakobczyk)
- 2016: Theoretical Aspects of Neutrino Physics (Jan Sobczyk)
- 2017: Understanding the Origin of Matter from QCD (Chihiro Sasaki)**
- 2018: Simplicity of Complexity in Economic and Social Systems (Dariusz Grech)
- 2019: Nuclear astrophysics in the multi-messenger era (Tobias Fischer)**
- 2020: Superfluidity and Transport for Multimessenger Physics of Compact Stars (Armen Sedrakian)**
- 2021: Equation of State of dense matter and multimessenger astronomy (David Blaschke)**
- 2022: Heavy Ion Collision: From First to Last Scattering (Pasi Huovinen)**

Red: Organized by Division of Theoretical Particle Physics

Note: No break despite Covid-19

KARPACZ WINTER SCHOOLS OF THEORETICAL PHYSICS



February 26 – March 4, 2017: Understanding the Origin of Matter from QCD (Chihiro Sasaki)

David Blaschke
Krzysztof Redlich
Chihiro Sasaki
Ludwik Turko *Editors*

Understanding the Origin of Matter

Perspectives in Quantum
Chromodynamics



Contents:

Part I: Ultrarelativistic Heavy-Ion Collisions

Grazyna Odyniec: Probing the QCD phase diagram with heavy-ion collisions
Jean-Paul Blaizot: The early stage of heavy-ion collisions
Wojciech Florkowski: Hydrodynamic description of ultrarelativistic HIC

Part II: Aspects of Quantum Chromodynamics

Robert Pisarski: Three lectures on QCD phase transitions
Hugo Reinhardt: Effective approaches to QCD
Shigehiro Yasui: Heavy flavors and exotic hadrons

Part III: Simulations of QCD and Heavy-Ion Collisions

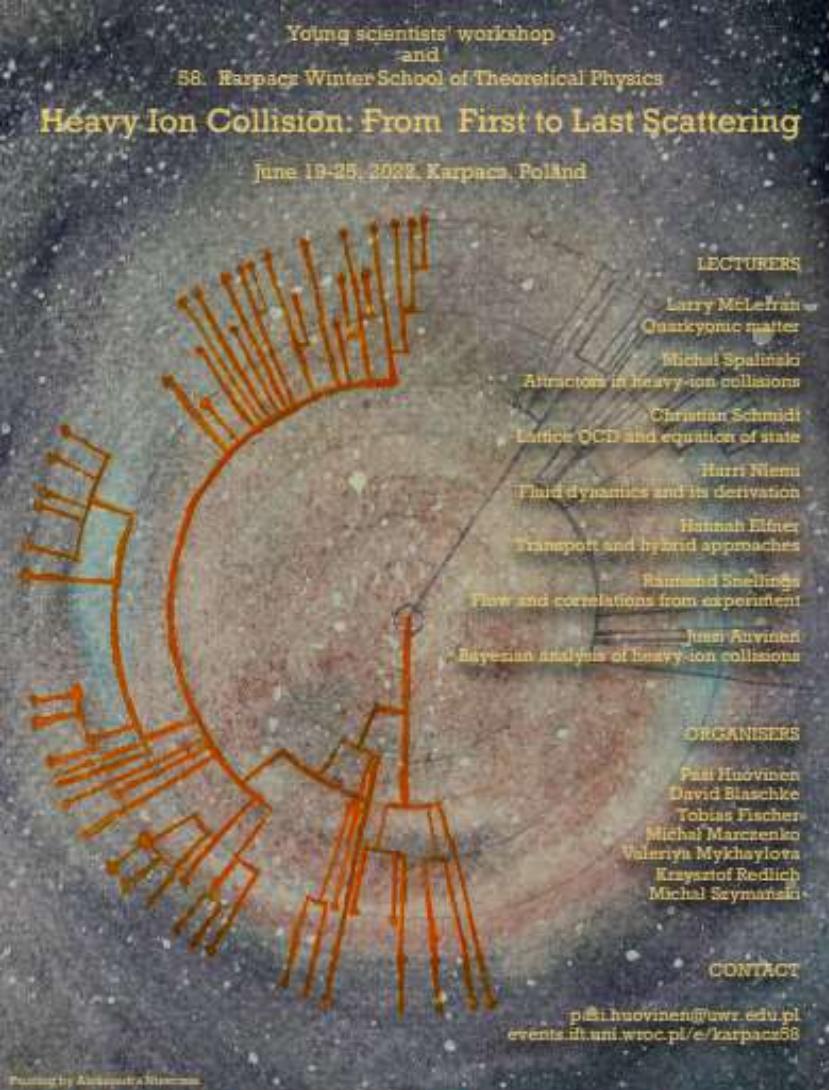
Olaf Kaczmarek: Flavored aspects of QCD thermodynamics from lattice QCD
Olaf Kaczmarek and Hai-Tao Shu: Spectral and transport properties from lattice QCD
Radoslaw Ryblewski: Monte-Carlo statistical hadronization in relativistic
heavy-ion collisions

Lecture Notes in Physics, volume 999

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Preview: http://www.ift.uni.wroc.pl/~blaschke/editor_2021-12-17.pdf



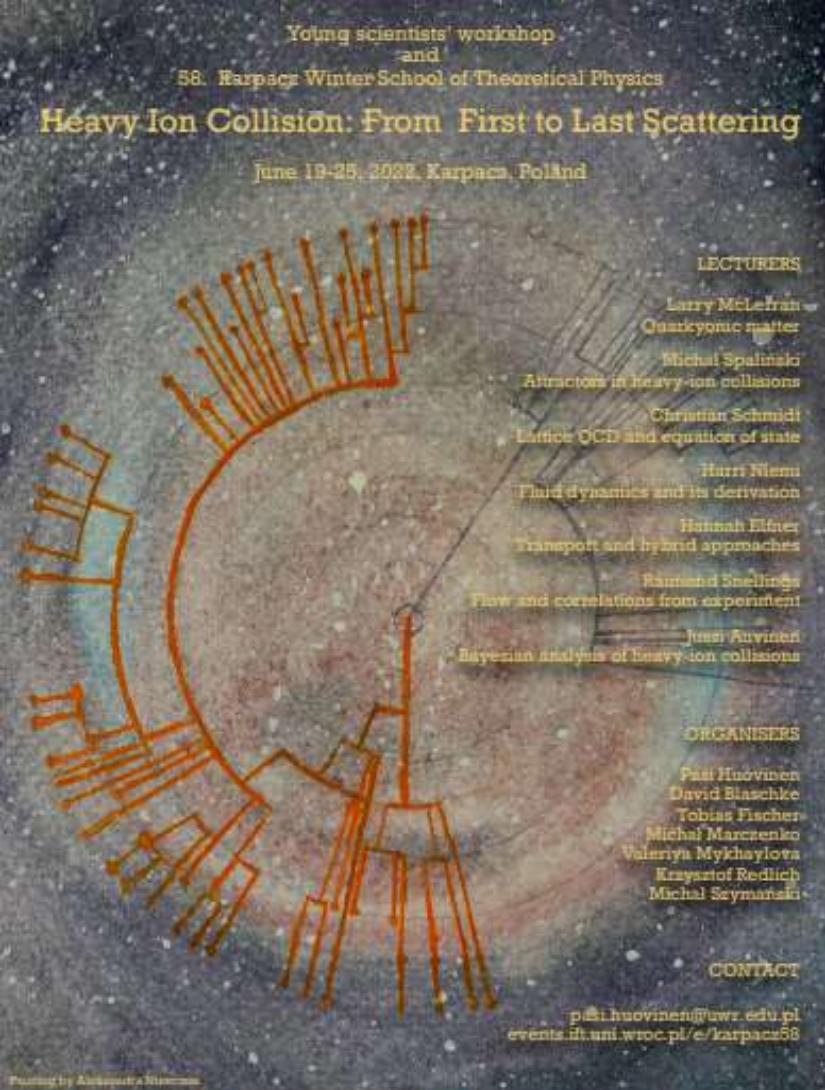
58th Karpacz “Winter” School + Young Scientists Workshop

Artus Hotel, Karpacz, June 19 – 25, 2022

Heavy Ion Collision: From First to Last Scattering

Director:

Pasi Huovinen (Incubator of Scientific Excellence)



58th Karpacz “Winter” School + Young Scientists Workshop

Artus Hotel, Karpacz, June 19 – 25, 2022

Heavy Ion Collision: From First to Last Scattering

Lecturers:

Larry McLerran: Quarkyonic Matter

Michał Spaliński: Attractors in Heavy-Ion Collisions

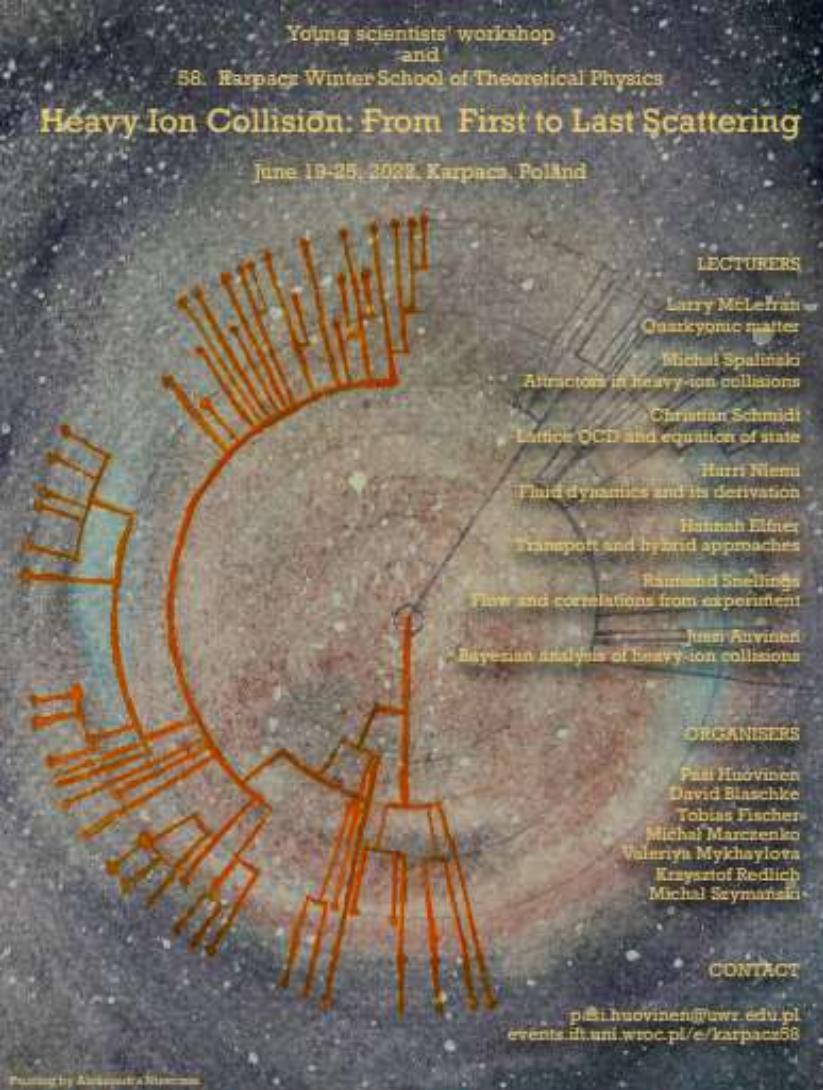
Christian Schmidt: Lattice QCD and Equation of State

Harri Niemi: Fluid dynamics and its derivation

Hannah Elfner: Transport and hybrid approaches

Raimond Snellings: Flow and correlations from experiment

Jussi Auvinen: Bayesian analysis of heavy-ion collisions



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Jussi Auvinen: Bayesian analysis of heavy-ion collisions

THE EVENT IS OPENED - ENJOY IT !