2022 Zimanyi Medal
Jozsef Zimanyi (1931 - 2006)

Renowned Hungarian physicist; chair of Science Council of KFKI; Member of the Hungarian Academy of Sciences.

Hungarian representative on the CERN Council (1992 - 2004).

Széchenyi Prize (2000).

Pioneered the notions of hadrochemistry and quarkochemistry in quark matter research; and one of the pioneers of the use of the relativistic hydrodynamical model for nuclear collisions.

Established Budapest heavy ion physics research school that is continued by his students.

Zimanyi Medal award was established in 2011.
Zimanyi Medal Rules

*The Zimanyi Medal is awarded to an outstanding young researcher working in heavy-ion physics theory. The research field is understood as generously wide, but it is oriented on Jozsef Zimanyi's life work.*

*No distinction, neither positive nor negative, can be made on the ground of race, gender, or nationality.*

Anyone who left this field of research (even if only recently) cannot be awarded this medal. An awardee must not have completed the fortieth year after birth (exceed the age of 39) until the beginning of the Quark Matter conference at which the Medal is awarded. The award cannot be shared among several persons.
Selection Process

The Selection Committee

Helen Caines (Yale)
Hannah Elfner (FIAS/GSI)
Eskola, Kari (Jyväskylä)
Fukushima, Kenji (Tokyo)
Grassi, Frédérique (Sao Paulo)
Jacak, Barbara (LBNL)
Lévai, Péter (Wigner RCP)
McLerran, Larry (INT Seattle)
Molnár, Dénes (Purdue)
Ollitrault, Jean-Yves (Saclay)
Rischke, Dirk (Frankfurt)
Sasaki, Chihiro (Wroclaw)
Schenke, Björn (BNL)
Wang, Xin-Nian (CCNU)
Wiedemann, Urs (CERN)

Mueller, Berndt (chair)
Bíró, Tamás (Zimanyi Foundation)

The Selection Process

Nomination round (18 nominees)

1st voting round (3 votes each)
→ short list (7 candidates)

2nd voting round (2 votes each)
→ finalists (2 candidates)

3rd voting round (1 vote each)
→ winner

Previous Winners

2011 Tetsufumi Hirano
2012 Péter Petreczky
2014 Tuomas Lappi
2015 Chihiro Sasaki
2017 Björn Schenke
2018 Hannah Petersen (Elfner)
2019 Eero Aleksi Kurkela
The Winner 2022

Sören Schlichting

1987 Born in Frankfurt am Main (Germany)

2009 B.Sc at TU Darmstadt (Germany)
2011 M.Sc at Michigan State Univ. (MI, USA)
2013 Ph.D. at Univ. Heidelberg (Germany)

2013-2016 Postdoc at BNL (NY, USA)
2016-2018 Res. Assist. Prof. at INT Washington (USA)
2018- Junior Prof. at Univ. Bielefeld (Germany)

51 refereed publications
2528 citations on INSPIRE-HEP
28 h-index
Main Accomplishments

Turbulent thermalization process in heavy-ion collisions at ultrarelativistic energies
J. Berges, K. Boguslavski, S. Schlichting, R. Venugopalan

Chiral magnetic effect and anomalous transport from real-time lattice simulations
N. Müller, S. Schlichting, S. Sharma

Off-equilibrium sphaleron transitions in the Glasma
M. Mace, S. Schlichting, R. Venugopalan

Effective kinetic description of event-by-event pre-equilibrium dynamics in high-energy heavy-ion collisions
A. Kurkela, A. Mazeliauskas, J.-F. Paquet, S. Schlichting, D. Teaney

Hydrodynamic attractors, initial state energy and particle production in relativistic nuclear collisions
G. Giacalone, A. Mazeliauskas, S. Schlichting
The 2022 Zimányi Medal on Nuclear Theory

awarded to

Sören Schlichting

and presented

at the Quark Matter 2022 Conference
Cracow, Poland

For his groundbreaking work on turbulence in Yang-Mill fluids and its implications for thermalization in heavy ion collisions, and his important contribution to matching the nonequilibrium initial stage of heavy ion collisions to hydrodynamics with QCD kinetic theory.

Two thousand dollars $2000

For Sören Schlichting

Who is the Winner of Zimányi Medal 2022

Thanks to Gergely Zimányi