



2019 Zimanyi Medal

Jozsef Zimanyi (1931 - 2006)

Renowned Hungarian physicist; chair of Science Council of KFKI; Academician.

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 Inst.)
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)*

The Winner 2019



Eero Aleksi Kurkela

2006 B.Sc and M.Sc. (Helsinki)

2008 Ph.D. (Helsinki)

2008-2010 Postdoc (ETH Zürich)

2010-2013 Postdoc (McGill U)

2013-2015 Marie Curie Fellow (CERN)

2015- Assoc. Prof. (U. Stavanger)

2015- Staff Member (CERN)

63 refereed publications

2133 citations on INSPIRE-HEP

Main Accomplishments

E. Annala, T. Gorda, A. Kurkela and A. Vuorinen,
Gravitational-wave constraints on the neutron-star-matter equation of state
Phys. Rev. Lett. 120, 172703 (2018) [arXiv:1711.02644 [astro-ph.HE]].
239 citations

A. Kurkela and Y. Zhu,
Isotropization and hydrodynamization in weakly coupled heavy-ion collisions
Phys. Rev. Lett. 115, 182301 (2015) [arXiv:1506.06647 [hep-ph]].
142 citations

A. Kurkela and G.D. Moore,
Thermalization in weakly coupled nonabelian plasmas
JHEP 1112, 044 (2011) [arXiv:1107.5050 [hep-ph]].
152 citations

A. Kurkela, P. Romatschke and A. Vuorinen
Cold quark matter
Phys. Rev. D 81, 105021 (2010) [arXiv:0912.1856 [hep-ph]].
224 citations

The really important stuff

