

# Physics & Philosophy 2015

The Fourth Conference  
Time, Space and Space-Time  
Split, 6–7.7.2015.



## Program

PONEDJELJAK (6. SRPNJA 2015)

Filozofski fakultet · Prirodoslovno-matematički fakultet, Teslina 12, Velika dvorana (polukat)

|             |  |   |
|-------------|--|---|
| 8:45–9:15   |  | Opening   |
| 9:15–10:45  | Jean-Marc Lévy-Leblond                               | From relativity to chronogeometry. The twin paradox (re)visited and (finally?) tamed                                |
| 11:15–12:00 | Tomislav Živković                                    | How experimentally to detect quantum transformations in space and time  |
| 12:00–12:30 | Zvonimir Šikić                                       | There is only one speed   |
| 13:00–13:30 | Dragan Poljak and Mirko Jakić                        | Nature of time asymmetry in modelling of physical systems   |
| 13:30–14:00 | Tonči Kokić  | Presocratic concept of time   |
| 16:00–16:45 | Aurelien Perera                                      | Should simulation — as a computer experiment — guide theory or the opposite? A liquid state physicist point of view |
| 16:45–17:30 | Jadran Vrabec  | Simulation, theory and experiment in thermodynamics from an engineer's point of view                                |
| 17:30–18:00 | Tomaž Urbič  | What is anomalous in liquids and is there liquid-liquid phase transition?   |
| 18:30–19:15 | <i>Physics and Philosophy:</i><br>book presentation. | Presenters: Filip Grgić, Dragan Poljak  |

UTORAK (7. SRPNJA 2015)

Filozofski fakultet · Prirodoslovno-matematički fakultet, Teslina 12, Velika dvorana (polukat)

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|-------------|---|--|
| 9:00–9:45   | Scott Walter                                    | Radio telemetry and the birth of spacetime conventionalism                                       |
| 9:45–10:30  | Nevenko Bilić                                   | Space and time in modern cosmology   |
| 11:00–11:45 | Marko Uršič                                     | The enigma of the existence of time  |
| 11:45–12:15 | Dubravko Horvat, Zoran Narančić and Saša Ilijić | Wormhole geometries and exotic matter  |
| 12:15–12:45 | Ivana Skuhala Karasman and Filip Grgić          | Time of death  |
| 13:00–13:30 | Vasil Penchev                                   | Beyond and across space: entanglement  |
| 13:30–14:00 | Luka Boršić                                     | The concepts of time and space just before the emergence of modern science                       |
| 16:00–16:30 | Kristina Šekrst                                 | The cosmological theory of inflation: problems, possible answers, and computational complexities |
| 16:30–17:00 | Domagoj Kuić                                    | What is probability and what is then statistical mechanics?                                      |
| 17:00–17:30 | Peter Lukan                                     | Time and probability   |
| 17:30–17:50 | Jadran Beganović                                | Some remarks on Reichenbach's philosophy of space and time                                       |
| 17:50–18:00 |   | Closing of the conference: Franjo Sokolić and Berislav Žarnić                                    |

Organizatori:  
Filozofski fakultet u Splitu  
Prirodoslovno-matematički fakultet u Splitu  
Fakultet elektrotehnike, strojarstva i brodogradnje u Splitu  
Institut za filozofiju u Zagrebu