

The Cambridge Masterclass in Philosophy of Physics

Thermal Physics

David Wallace (Oxford)

Roman Frigg (LSE)

James Ladyman (Bristol)

SATURDAY, 14 NOVEMBER 2015

Winstanley Theatre, Trinity College, Cambridge

| | |
|--------|---------------------------------------------------------------------------------------------------------|
| 9:45 | Welcome & Registration |
| -10:00 | |
| 10:00 | David Wallace , "Quantum Aspects of Statistical Mechanics" |
| -11:00 | |
| 11:00 | Coffee |
| -11:30 | |
| 11:30 | David Wallace , "Two Kinds of Maxwell's Demon" |
| -12:30 | |
| 12:30 | Lunch |
| -14:00 | |
| 14:00 | James Ladyman , "Is thermodynamics a control theory? If so what follows, and if not what is it?" |
| -15:00 | |
| 15:00 | Tea |
| -15:30 | |
| 15:30 | Roman Frigg , "Rethinking Equilibrium" |
| -16:30 | |
| 16:30 | Discussion |
| -17:30 | |
| 18:00 | Pub |

Readings. Wallace, "What Statistical Mechanics Actually Does", "Probability in Physics", "Thermodynamics as Control Theory", Frigg & Werndl, "Reconceptualising equilibrium in Boltzmannian statistical mechanics and characterising its existence", Ladyman, "The Connection between Logical and Thermodynamic Irreversibility"

£5 Registration. Students Welcome.

The Cambridge Masterclass in Philosophy of Physics is an opportunity for advanced students to engage with leading scholars on a cutting edge topic, with an emphasis on pedagogy and discussion.



With thanks to our sponsors: The British Society for Philosophy of Science, Trinity College, the Cambridge Philosophy of Science Network, and the Cambridge Philosophy Faculty.