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| The Van Leer Jerusalem InstituteThe Cohn Institute for the History and Philosophy of Science and IdeasTel Aviv UniversityEdelstein Center for the History and Philosophy of Science, Technology and Medicine, The Hebrew University of Jerusalem**The Probable and the Improbable:The Meaning and Role of Probability in Physics**The Twenty-Second Annual International Workshopon the History and Philosophy of Science**In Honor of Itamar Pitowsky****הסתברות – משמעותה ותפקידה בפיזיקה**הסדנה הבינלאומית השנתית העשרים ושתיים בהיסטוריה ופילוסופיה של המדע**לכבוד איתמר פיטובסקי**Sunday-Wednesday, 14-17 December 2008At The Van Leer Jerusalem Institute [Click here to download a detailed program](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/program.pdf)**Sunday, 14 December 2008**

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| 09:30 – 10:30 | [**John Earman**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#earman), Understanding the Unruh Effect |
| 10:30 – 11:30 | [**Laura Ruetsche**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#ruetsche), Why Be Normal? Probabilities in Ordinary QM, Relativistic QFT, and QSM |
| 11:30 – 12:00 | *Coffee Break* |
| 12:00 – 13:00 | [**David Albert**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#albert), Physics and Chance |
| 13:00 – 14:30 | *Lunch Break* |
| 14:30 – 15:30 | [**Shelly Goldstein**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#goldstein), Typicality and Notions of Probability in Physics |
| 15:30 – 16:00 | *Coffee Break* |
| 16:00 – 17:30 | [**Meir Hemmo**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#hemmo), The Significance of Laws of Large Numbers in Statistical Mechanics[**Orly Shenker**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#shenker), Probabilities over Initial Conditions in Statistical Mechanics |

**Monday, 15 December 2008**

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| 09:30 – 10:30 | [**Jos Uffink**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#uffink), Will Someone Say Exactly What the H-theorem Proves? |
| 10:30 – 11:30 | [**Roman Frigg**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#frigg), Why Typicality Does Not Explain the Approach to Equilibrium |
| 11:30 – 12:00 | *Coffee Break* |
| 12:00 – 13:00 | [**Wayne Myrvold**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#myrvold), Physical Chances in a Deterministic Setting |
| 13:00 – 14:30 | *Lunch Break* |
| 14:30 – 15:30 | [**Simon Saunders**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#saunders), Chance in the Everett Interpretation of Quantum Mechanics |
| 15:30 – 16:00 | *Coffee Break* |
| 16:00 – 17:00 | [**Lev Vaidman**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#vaidman), Probability in the Many Worlds Interpretation of Quantum Mechanics |
| 17:00 – 18:00 | Discussion |

**Tuesday, 16 December 2008**

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| 16:00 – 17:00 | [**Joseph Berkovitz**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#berkovitz), The World According to De Finetti |
| 17:00 – 18:00 | [**Ruediger Schack**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#schack), From Dutch Book Coherence to Quantum Coherence |
| 18:00 – 19:00 | [**Alexander Wilce**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#wilce), Entanglement and Measurement in General Probabilistic Theories |

**Wednesday, 17 December 2008**

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| 09:30 – 10:30 | [**Yemima Ben-Menahem**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#benmenachem), Locality and Determinism as Members of the Causal Family |
| 10:30 – 11:30 | [**Jeffrey Bub**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#bub), Pseudo-telepathic Games, Nonlocal Boxes, and All That |
| 11:30 – 12:00 | *Coffee Break* |
| 12:00 – 13:00 | [**Daniel Rohrlich**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#rohrlich), Quantum Fun with Classical Energy Distributions |
| 13:00 – 14:30 | *Lunch Break* |
| 14:30 – 16:00 | [**Avshalom Elitzur**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#elitzur) and [**Eric Fanchon**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm), What does Maxwell's Demon Select, and How?[**Alon Drory**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#drory), Revising Boltzmann's Program |
| 16:00 – 16:30 | *Coffee Break* |
| 16:30 – 17:45 | Greetings: **Gabriel Motzkin**, Director, The Van Leer Jerusalem Institute |
|   | [**Itamar Pitowsky**](http://web.archive.org/web/20081219193123/http%3A/www.vanleer.org.il/probability/5-abstracts.htm#pitowsky), On Certainty (Probability One and Probability Zero) in Quantum Mechanics |
| 17:45 – 18:45 | Concluding Remarks and Discussion |

The Van Leer Jerusalem Institute: 43, Jabotinsky Street, JerusalemTel. 972-2-5605216, 5605282; Meir Hemmo meir@research.haifa.ac.ilYemima Ben-Menahem msbenhy@mscc.huji.ac.ilAdmission is freeParking is available nearby at the free parking lot on Chopin Street next to the Jerusalem Theatre. |

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