



**Space-Time Theories: Historical and Philosophical Contexts**  
 Monday-Thursday, January 5-8, 2015, in Jerusalem

**Monday January 5, 2015**  
**At the Van Leer Jerusalem Institute**

Morning Session: Einstein Studies  
**10:00—13:00**

**Peter Dougherty, Director, Princeton University Press**  
 Reflections on The Einstein Papers Project

**Diana Kormos-Buchwald, Einstein Papers Project, Caltech**  
 News from the Editorial Desk of the Collected Papers of Albert Einstein

**Hanoch Gutfreund, the Hebrew University of Jerusalem**  
 The Story of Einstein's 'Popular Booklet' and the Reception of Relativity

Coffee Break 11:30—12:00

**Jurgen Renn (with Michel Janssen), the Max Planck Institute for the History of Science, Berlin**  
 Einstein's 1913 Vienna Lecture: Modeling Gravitational theory on Electrodynamics

Lunch Break 13:00—14:00

Afternoon Session: Einstein and his Methodology  
**14:00—17:30**

**Jeroen van Dongen University of Amsterdam/Utrecht University**  
 A Virtuous Theorist's Theoretical Virtues: Einstein on Physics vs. Mathematics and Experience vs. Unification

**Robert Disalle, University of Western Ontario**  
 Geometry, Experience, and General Relativity: On the Ineffective Reasonableness of Mathematics

Coffee Break 16:00—16:30

**Tilman Sauer, University of Bern**  
 Einstein's inferential conception of the application of mathematics

**Bergmann Centenary 17:30—18:30**  
**Donald C. Salisbury, Austin College Texas and the Max Planck Institute for the History of Science, Berlin**  
 Peter G. Bergmann (1915 – 2002): A World Point Who will Never Fade

19:00 -- Welcome Dinner at Yemima's

*Handwritten notes in German script are visible in the background of the page, including phrases like 'als Energie', 'symmetrischen', 'relativitätstheorie', 'feldes gemischten Charakter haben wird', 'symmetrischen', 'man also', 'in der', 'der Gravitationsfeldes', '(51). Betrachtet man nämlich ein vollständiges System (z. B. das', 'also auch seine gesamte gravit.', 'Gesamtheit des Systems, also von der ponderablen', 'und Gravitationsfeldes', 'wird sich dadurch ausdrücken', 'ausstelle', 'feldes als', 'von Materie', 'stellt (51) die Tensorgleichung', 'woher T =', 'sind die', 'gravitativ', 'wird dar', 'soll, wie jegliche Energie anderer Art. Der stärkste Grund für die Wahl der vorstehenden Gleichungen liegt aber darin,*

**Tuesday January 6, 2015**  
**At the Van Leer Jerusalem Institute**

Morning Session: The Renaissance of  
General Relativity  
**9:00—11:00**

**Roberto Lalli, the Max Planck Institute  
for the History of Science, Berlin**  
Building the Relativity Community in  
Post-World War II Era: The Role of  
Communication Channels and  
Stabilization Processes in the  
Renaissance of General Relativity

**Alexander Blum, the Max Planck  
Institute for the History of Science,  
Berlin**  
The Schism - The Origins of Canonical  
and Covariant Quantum Gravity

Coffee Break 11:00—11:30

**Daniel Kennefick, University of  
Arkansas and the Einstein Papers  
Project, Caltech**  
The Construction of the Asymptotic  
Structure of Spacetime

**Dennis Lehmkuhl, IZWT, University of  
Wuppertal; Einstein Papers Project,  
Caltech**  
Einstein, Cartan, Weyl, Jordan: The  
Neighborhood of General Relativity in  
the Space of Spacetime Theories

Lunch Break 13:30—15:00

Afternoon Session: Time  
**15:00—18:30**

**Lee Smolin, Perimeter Institute (Video)**  
Time and Law in a Cosmological Context

**Yuval Dolev, Bar-Ilan University**  
Can Physics End Time?

Coffee Break 17:00—17:30

**Meir Hemmo, Haifa University, and  
Orly Shenker, the Hebrew University of  
Jerusalem**  
Macroscopic and Microscopic  
Arrows of Time



**Wednesday, January 7, 2015**  
Joint day with the Jerusalem Winter  
School in Theoretical Physics  
At the Edmond J. Safra Campus, the  
Hebrew University of Jerusalem

Morning Session: The History of General  
Relativity  
**9:00—12:30**

**Leo Corry, Tel-Aviv University**  
Einstein Meets Hilbert on the Way to  
General Relativity: Who Arrives First?

**Jürgen Renn (with Alexander Blum) the  
Max Planck Institute for the History of  
Science, Berlin**  
The Renaissance of General Relativity -  
A New Reading

Coffee Break 11:00—11:30

Round Table: The History of General  
Relativity

Lunch Break 12:30—14:00

Afternoon Session: General Relativity in  
Contemporary Physics  
**14:00—18:30**

Round Table: Astrophysics  
(Moderator: David Gross)

Coffee Break 17:00—17:30

Round Table: String Theory  
(Moderator: David Gross)

**17:30—18:30**

**Musical Interlude**  
Violinist **Rinat Erlichman** will play  
chapters of violin sonatas by Ysaye and  
Bach

**Exhibit: selected documents from the  
Einstein Archive**

With **Hanoch Gutfreund, the Hebrew  
University of Jerusalem**

**Thursday, January 8, 2015**  
At the Van Leer Jerusalem Institute

Morning Session: Quantum Gravity  
**9:30—13:00**

**Kip Thorne, Caltech**  
Geometrodynamics: The Nonlinear  
Dynamics of Curved Spacetime

**Carlo Rovelli, Aix-Marseille University**  
Quantum Spacetime

Coffee Break 11:30—12:00

**Gordon Belot, University of Michigan**  
A Philosophical Tour of de Sitter  
Spacetime

Lunch Break 13:00—14:30

Afternoon Session: Spacetime and  
Quantum Mechanics  
**14:30—16:30**

**Daniel Rohrlich, Ben-Gurion University  
of the Negev**  
Retrocausality as an Axiom

**Yemima Ben-Menahem, the Hebrew  
University of Jerusalem**  
Spacetime and Nonlocality: Revisiting  
the Epistemic Interpretation of QM

Coffee Break 16:30—17:00

**17:00—18:00**

**Concluding Perspectives**  
**Gabriel Motzkin, the Van Leer  
Jerusalem Institute**

Can There Be a New Metaphysics of  
Spacetime?

18:30 -- Farewell Dinner

**Friday January 9, 2015**  
Tour of Jerusalem 8:30—14:00