

SUMMER SCHOOL ON THE CONCEPT OF SPACE

DAILY SCHEDULE

The School begins on **Monday, July 24th**, at **9:00 am**, with a welcome coffee and a presentation of the Institute by Jürgen Jost.

	Monday, July 24 th	Tuesday, July 25 th	Wednesday, July 26 th	Thursday, July 27 th	Friday, July 28 th	Saturday, July 29 th
9:30 – 10:30	De Risi <i>The Birth of Space in the Renaissance</i>	Jost <i>Riemannian Geometry and its Development</i>	Ryckman <i>Helmholtz and Poincaré</i>	Trip to Halle	Weeks <i>Visualizing Four Dimensions</i>	Miller <i>Composition and Synthesis: Descartes's Critics and Newton</i>
10:30 – 10:45	Break	Break	Break		Break	Break
10:45 – 11:45	Miller <i>Representing Space and the Structure of Science</i>	Falkenburg <i>Kant's Argument of Incongruent Counterparts (1768)</i>	Falkenburg <i>From Kant to Cohen and Natorp</i>		Jost <i>The Geometric Formulation of Modern High Energy Physics</i>	Ryckman <i>Hermann Weyl I</i>
11:45 – 12:00	Break	Break	Break		Break	Break
12:00 – 13:00	Ryckman <i>Mach</i>	Falkenburg <i>Kant's Antinomy of Pure Reason (1781)</i>	Falkenburg <i>The Role of Intuition in Physics</i>		Jost <i>The Geometry of Data</i>	Ryckman <i>Hermann Weyl II</i>
13:00 – 14:00	Lunch	Lunch	Lunch		Lunch	Lunch
14:00 – 15:00	Weeks <i>The Shape of Space</i>	De Risi <i>The Leibniz-Clarke Correspondence</i>	Kiefer <i>Concepts of Space in Quantum Theory and Quantum Gravity</i>		Miller <i>Terrestrial Spaces: Galileo and Inertia</i>	De Risi <i>The Discovery of non-Euclidean Geometry</i>
15:00 – 15:15	Break	Break	Break		Break	Break
15:15 – 16:15	Kiefer <i>Concepts of Space in Special and General Relativity</i>	Weeks <i>Experiencing Non-Euclidean Space</i>	Miller <i>Celestial Spaces I: Copernicus and the Problem of Centers</i>		De Risi <i>Space as a Mathematical Structure</i>	Weeks <i>Geometry of Spacetime</i>
16:15 – 16:30	Break	Break	Break		Break	Break
16:30 – 17:30	Falkenburg <i>Kant's Early Cosmology (1755/56)</i>	Weeks <i>Play Billiards in Curved-Space VR</i>	Miller <i>Celestial Spaces II: Gilbert and Kepler and the Problem of Direction</i>		Ryckman <i>Neopositivists: Carnap, Reichenbach, Schlick</i>	Jost <i>The Geometrization of Modern Mathematics</i>