

SUMMER SCHOOL ON THE FOUNDATIONS OF GEOMETRY

DAILY SCHEDULE

The School begins on **Monday, July 2nd**, at **9:00 am**, with a welcome coffee and a presentation of the Institute by Jürgen Jost.

| | Monday, July 2 nd | Tuesday, July 3 rd | Wednesday, July 4 th | Thursday, July 5 th | Friday, July 6 th | Saturday, July 7 th |
|---------------|--|--|--|--|---|---|
| 9:30 – 10:30 | De Risi <i>The Development of Euclidean Axiomatics</i> | Gray <i>Differential Geometry</i> | Heinzmann <i>Poincaré's Philosophy of Geometry Reconsidered III</i> | Arana <i>The delimitation of geometry: reflections from o-minimality II</i> | De Risi <i>The Birth of non-Euclidean Geometry: from Leibniz to Gauss</i> | Pambuccian <i>Pappus and Desargues in the axiomatic foundations of geometry</i> |
| 10:30 – 10:45 | Break | Break | Break | Break | Break | Break |
| 10:45 – 11:45 | Gray <i>Projective Geometry</i> | Gray <i>The Kleinian view of Geometry</i> | Heinzmann <i>Poincaré's Philosophy of Geometry Reconsidered IV</i> | Arana <i>The delimitation of geometry: reflections from geometric model theory I</i> | De Risi <i>The Birth of non-Euclidean Geometry: from Leibniz to Gauss</i> | Pambuccian <i>Pappus and Desargues in the axiomatic foundations of geometry</i> |
| 11:45 – 12:00 | Break | Break | Break | Trip to Dresden | Break | Brunch |
| 12:00 – 13:00 | Arana <i>The delimitation of geometry: a Cartesian perspective</i> | Pambuccian <i>Is geometry algebra?</i> | Gray <i>Hilbert's Axiomatic Geometry</i> | | Jost <i>More general structures, like metric geometry, set theoretic and algebraic topology</i> | Jost <i>Algebraic geometry and the drive towards abstraction</i> |
| 13:00 – 14:00 | Lunch | Lunch | Lunch | | Lunch | |
| 14:00 – 15:00 | Heinzmann <i>Early Structuralist Roots of Mathematical Understanding. Poincaré's Philosophy of Geometry Reconsidered I</i> | De Risi <i>Logic, Space, and Diagrammatic Inferences</i> | Jost <i>Riemannian geometry as the language of theoretical physics in the 20th century</i> | | Pambuccian <i>Difficulties arising from attempting to apply Hilbert's 24th problem to geometry</i> | |
| 15:00 – 15:15 | Break | Break | Break | | Break | |
| 15:15 – 16:15 | Pambuccian <i>The true, overlooked significance of Hilbert's Grundlagen der Geometrie</i> | Arana <i>The delimitation of geometry: reflections from o-minimality I</i> | Graziani <i>Taxonomies of Geometric Problems</i> | | Arana <i>The delimitation of geometry: reflections from geometric model theory II</i> | |
| 16:15 – 16:30 | Break | Break | Break | | Break | |
| 16:30 – 17:30 | Jost <i>Riemannian geometry: its concepts and its developments</i> | Heinzmann <i>Poincaré's Philosophy of Geometry Reconsidered II</i> | De Risi <i>Provability of Axioms</i> | | Gray <i>Geometry, Physics, and Truth</i> | |