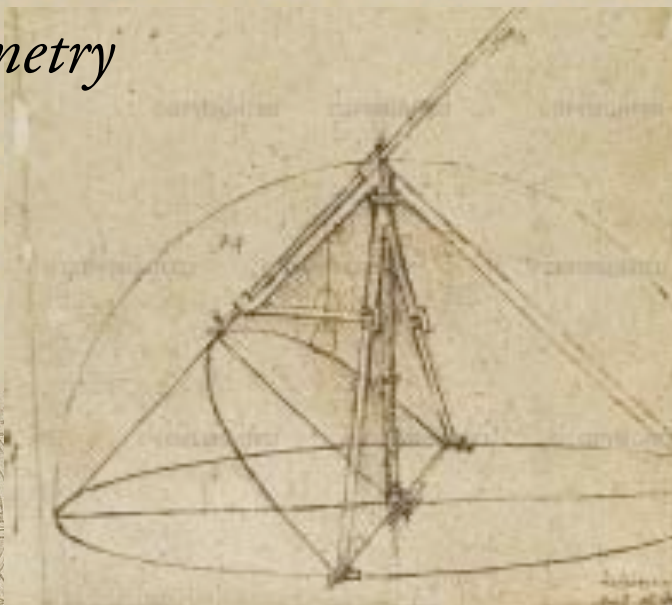
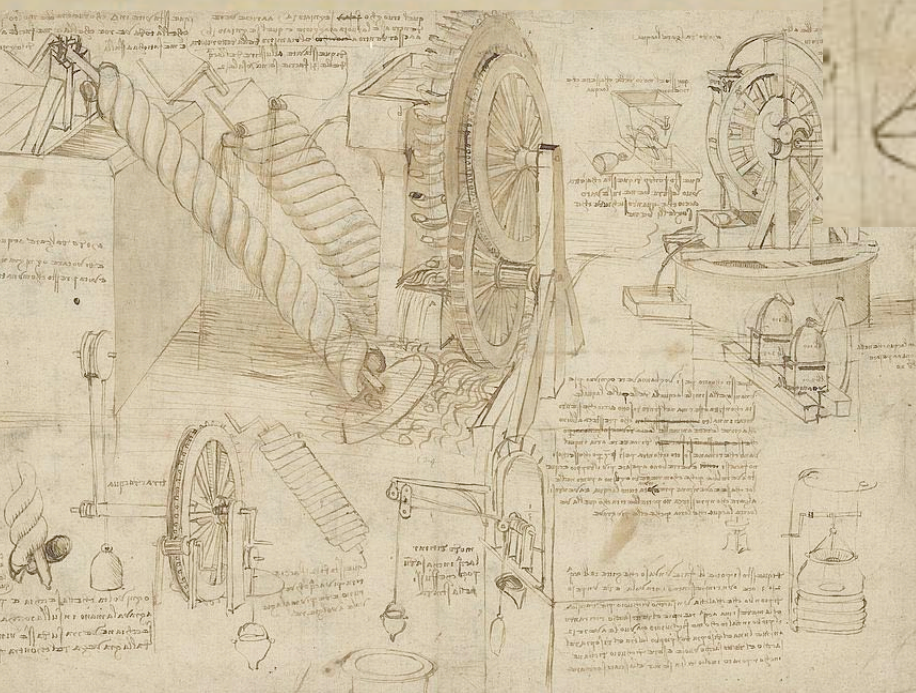


# *The Mechanization of Geometry*

## *From Antiquity to the Modern Age*

Berlin, June 23<sup>rd</sup>-25<sup>th</sup>, 2014



Conference Room of the  
*Max Planck Institute for the  
History of Science*

Boltzmannstraße 22  
14195 Berlin

**Monday, June 23<sup>rd</sup>**

9:30 *Meeting and Introduction*

9:45 – 11:15 REVIEL NETZ (Stanford University)  
*Geometrical Liquids: The Motivation of Archimedes' Floating Bodies*

11:30 – 13:00 ANGELA AXWORTHY (MPIWG)  
*Sixteenth-century Interpretations of the Nature and Use of Motion in Geometry*

*Lunch*

14:00 – 15:30 MATTHIAS SCHEMMELE (MPIWG)  
*Geometry in Flux: Thomas Harriot's Geometry of Motion*

15:45 – 17:15 MARCO PANZA (CNRS, Paris)  
*What makes Descartes' Geometric Curves are Geometric and his Mechanical Curves are Mechanical: an Enquiry on the Foundations of Descartes' Geometry*



## Tuesday, June 24<sup>th</sup>

9:30 *Meeting*

9:45 – 11:15 DANIEL GARBER (Princeton University)  
*Hobbes's Mechanical Geometry and Geometrical Mechanics*

11:30 – 13:00 ANTONI MALET (Universitat Pompeu Fabra, Barcellona)  
*Renouncing Euclidean Foundations, Hobbes to Newton*

*Lunch*

14:00 – 15:30 RICHARD T.W. ARTHUR (McMaster University, Ontario)  
*Motion Geometrically Considered, and Motion with Respect to Cause*

15:45 – 17:15 HELMUT PULTE (Ruhr-Universität Bochum)  
*Leonhard Euler's Concept of Space in the Context of his Scientific Metaphysics*

## Wednesday, June 25<sup>th</sup>

9:30 *Meeting*

9:45 – 11:15 GEORGE SMITH (Tufts University)  
*Newton's Evolving Conceptualization of Gravity in 1685*

11:30 – 13:00 MICHAEL FRIEDMAN (Stanford University)  
*Kant on the Mechanical Determination of Quantity of Matter*

*Discussants:* TAWRIN BAKER, DELPHINE BELLIS, GRACIELA DE PIERRIS, KATHERINE DUNLOP, TAL GLEZER, HANNES OLE MATTHIESSEN, MASSIMO MUGNAI, et al.

*Organized by*  
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