

PROOF IN NATURAL PHILOSOPHY FROM ANTIQUITY TO THE EARLY MODERN PERIOD

CZECH ACADEMY OF SCIENCES / 21–23 MAY 2026

THURSDAY 21

9:15–13:00 chair Pavel Gregorić

- KLAUS CORCILIOUS The *eikos logos* as a sort of proof in Plato's *Timaeus*
HYNEK BARTOŠ & VOJTĚCH LINKA The construction of evidence in early Greek medicine
R. J. HANKINSON Mathematics and physics in Aristotle's theory of the ether

15:00–17:30 chair István Bodnár

- LUCAS ANGIONI Explanation and *hoti*-refinement in Aristotle's *Incessu Animalium*
MATYÁŠ HAVRDA Proof and experiment in Galen

FRIDAY 22

9:15–13:00 chair Vojtěch Hladký

- DAVID BRONSTEIN Aristotle on demonstration and necessity: From Themistius to Zabarella
JACQUELINE FEKE Proclus' excoriation of the eccentric and epicyclic models of planetary motion
RICCARDO STROBINO Void check: Necessarily empty terms and indirect proof
in Avicenna's natural philosophy

15:00–17:30 chair Matjaž Vesel

- ELŽBIETA JUNG Mathematics and logic as methods of doing natural science by Oxford Calculators
SYLVAIN ROUDAUT The use of mathematical principles in the medieval science of weights

SATURDAY 23

9:15–13:00 chair Miroslav Hanke

- FABRIZIO BIGOTTI Visualisation as proof: The use of schemes and diagrams in medical theory (1300–1500)
DANA JALOBEANU Bacon's induction and the construction of "science"
MATJAŽ VESEL Galileo Galilei's "necessary demonstrations"

15:00–17:30 chair Fabrizio Bigotti

- SOPHIE ROUX Crucial experiments and the *reductio ad absurdum* in the 17th century
LADISLAV KVASZ On Newton's proof of the law of gravity from Kepler's laws