

SYMPOSIUM ANNOUNCEMENT

From the Copernican revolution to our modern view of the solar system and the universe

Dec. 9, 2016 – Radboud University, Nijmegen, Linnaeusgebouw, Room LIN1

400 years ago, in 1616, the Sacred Congregation of the Index placed Copernicus' "On the Revolution of the Celestial Spheres" on their updated list of forbidden books and warned Galileo Galilei against any further promulgation of the heliocentric model. In the history of science this event has frequently been considered as a turning point in the development of science and its relation to religion. How has our view evolved today? On the occasion of the 400th anniversary of Copernicus' placement on the Index of Forbidden Books, the Institute for Mathematics, Astrophysics and Particle Physics (IMAPP) of Radboud University's Faculty of Science and the Faculty of Philosophy, Theology and Religious Studies co-organize a symposium around the theme of the development and current challenges of astronomy. Benefitting from the presence of Dr. Guy Consolmagno, Director of the Vatican Observatory, the symposium will address the 1616 episode and then turn to various aspects of contemporary astronomy, from the solar system to extrasolar planets and cosmology. The central purpose of the symposium is to shed light on how astronomy has changed our view of the universe, and to assess its current challenges and limitations.

10:00 Coffee & Tea

10:30 Welcome & Introduction (H. Falcke, C. Lüthy)

10:40-11:00 Carla Rita Palmerino (Radboud University, CHPS) - Copernicus, Kepler, Galilei and the church

11:10-11:30 Frank Verbunt (Radboud University, IMAPP), Copernicus & Kepler: How they changed our understanding of the universe (and how did they do it?)

11:40-12:20 Alessandro Morbidelli (Université Cote d'Azur, Observatoire de la Cote d'Azur, Nice) – Evolution and formation of the solar system: what we know today.

12:30 Lunch

13:30-13:50 Simon Portegies Zwart (Univ. Leiden, Leiden Observatory) – Dynamics, Chaos, and stability in our solar system

14:00-14:20 Ignas Snellen (Univ. Leiden, Leiden Observatory) – Observing other worlds: exoplanetary systems

14:00-14:20 Koen Kuijken (Univ. Leiden, Leiden Observatory): A universe out of nothing? Origin and evolution of the universe.

15:00-15:30 Coffee

15:30-15:50 Klaas Landsman (Radboud University, IMAPP) – The Anthropic principle: is our universe special? And can we really tell?

16:00-16:30 Guy Consolmagno (Vatican Observatory): Why do we do science?

16:40-17:15 Panel discussion (Moderator: **Heino Falcke**)

17:15-18:00 Reception

Participation is open to the general public but registration will be required.