

T⁴ Conference
Radiation and Atmospheres Section
(May 24-25, 2012)
<http://theop11.chem.elte.hu/T4>

Plenary lectures:

István Geresdi (University of Pécs, Hungary)
The role of clouds in the transport of aerosol particles

Ákos Horváth (LITR, Leipzig, Germany)
Evaluation of 3D effects in satellite cloud property retrievals using simulated observations

Jonathan Tennyson (UCL, London, United Kingdom)
Molecular line lists for the opacity of exoplanets, cool stars and other atmospheres

Workshop:

Radiative transfer and atmospheres
(organizer: Attila G. Császár)

Location: Room 060, Chemistry Building
25 minute lectures + 5 minutes for questions

24 May, Thursday

14:30 Lauri Halonen (University of Helsinki, Finland)
Computational study of vibrational spectra and thermodynamic properties of the sulphuric acid monohydrate complex

15:00 Tibor Furtenbacher (ELTE, Budapest, Hungary)
MARVEL: measured active rotational-vibrational energy levels

15:30 Henrik G. Kjaergaard (Copenhagen, Denmark)
Spectroscopy of binary complexes

16:00 Discussions

16:15 Break

16:30 Hans Lischka (Lubbock, TX, U.S.A.) – Kapuy Memorial Lecture
Application of multireference theory: from the photodynamics of nucleobases to graphene multiradical structures

25 May, Friday

- 14:30 Attila Demeter (NSRC, Budapest, Hungary)
Some photophysical aspects of the atmospheric fate of acetone
- 15:00 Ákos Horváth (Leipzig, Germany)
View angle dependence of visible/near-infrared cloud liquid water path retrievals
- 15:30 Eszter Lábó (HMS, Budapest, Hungary)
Application of a detailed microphysical scheme in calculating optical properties of warm clouds
- 16:00 Discussions