



1st Workshop on the Far-infrared Outgoing Radiation Understanding and Monitoring (FORUM) mission

Florence, 23-25 October 2018

Call for Papers

Objectives

The main goal of this workshop is to quantitatively discuss the various applications which the proposed [ESA Far-infrared Outgoing Radiation Understanding and Monitoring \(FORUM\) mission](http://fts.fi.ino.it/forum/workshop/) may be able to contribute to. Uniquely, FORUM will measure top of atmosphere nadir radiances in the far-infrared part of the spectrum, covering a total spectral range of 100-1600 cm^{-1} . It will fly in close formation with Metop-SG allowing synergistic observations with IASI-NG, providing, for the first time, measurements of the full, radiatively important, outgoing longwave radiation spectrum. It is anticipated that the mission will provide an improved characterisation of atmospheric water vapour profiles, ice and mixed-phase clouds, surface emissivity, and the Earth Radiation Budget. The workshop will help the FORUM team to improve the scientific readiness of the mission.

You will find further details about the workshop on our website:

<http://fts.fi.ino.it/forum/workshop/>

Themes

- Water vapour spectroscopy and distribution
- CO₂ spectroscopy
- Spectroscopy of other species
- Cloud Modelling
- Surface ice/snow emissivity
- Earth's Radiation Budget
- Challenges in climate modelling and Numerical Weather Prediction

Abstract submission

We welcome abstracts for poster presentations. Please send a (maximum) one page abstract to forum@ino.cnr.it before **10 September**. Authors will be notified of acceptance or non-acceptance by **21 September**.

Registration

Register your attendance before **5 October** forum@ino.cnr.it

Invited Speakers

Anthony Baran, Met Office

Bryan Baum, Science and Technology Corporation

Stefan Buehler, Universität Hamburg

Claude Camy-Peyret, Institute Pierre Simon Laplace UPMC

Daniel Feldman, Lawrence Berkeley National Laboratory

Jean-Marie Flaud, Université Paris Sud

Michaela Hegglin, University of Reading

Xianglei Huang, University of Michigan

Martina Krämer, Forschungszentrum Jülich

Tiziano Maestri, Università di Bologna

Agnes Perrin, Université Paris Est Créteil

Roger Saunders, Met Office

Carmine Serio, Università della Basilicata

David Turner, NOAA

Martin Wild, ETH Zürich

Scientific Committee

Helen Brindley, Imperial College London

Stefan Buehler, Universität Hamburg

Bruno Carli, IFAC CNR

Dorothee Coppens, EUMETSAT

Steven Dewitte, RMI Be

Bianca Maria Dinelli, ISAC CNR

Laurent Labonnote, Université de Lille

Quentin Libois, Météo-France

Martin G. Mlynczak, NASA

Alberto Ortolani, IBIMET CNR

Luca Palchetti, INO CNR

Marco Ridolfi, Università di Bologna

Martin Riese, Forschungszentrum Jülich

Rolando Rizzi, Università di Bologna

Roger Saunders, Met Office

Venue

The workshop will be held in central Florence at Accademia dei Georgofili.