

# First Finnish Workshop on Radiative Transfer

May 6-7, 2019, in Finnish Meteorological Institute, Erik Palménin aukio 1, Dynamicum-building, Helsinki.

## Organizers

- Tanja Tarvainen, University of Eastern Finland
- Hannakaisa Lindqvist, Finnish Meteorological Institute
- Antti Penttilä•University of Helsinki

## Description

This workshop is arranged to bring together researchers working on theory and computational modelling of radiative transfer in Finland. The research fields include, but are not limited to, for example astronomy, atmospheric physics and biomedical optics. The aim is to gather together from these different fields to present their research and exchange ideas.

## Schedule (printout of the schedule and abstracts [here](#))

Monday 6.5.2019		
10:15	Opening	
10:30	Karri Muinonen	<a href="#">Radiative transfer in planetary regoliths: theory and experiments</a>
11:00	Antti Penttilä	<a href="#">Radiative transfer in planetary regoliths: applications</a>
11:30	break	
12:00	Antti Arola	<a href="#">Radiative transfer modeling activities in FMI Atmospheric Radiation group</a>
12:30	lunch (at own cost)	
13:30	Jouni Peltoniemi	<a href="#">Radiative transfer in layered heterogeneous media, experiments and modelling</a>
14:00	Matti Möttöus	<a href="#">Spectral invariants in vegetation reflectance modeling</a>
14:30	coffee	
15:00	Igor Meglinski	<a href="#">Current progress in computational imitation of radiative transfer: from simple light to complex vector laser beams</a>
15:30	Tanja Tarvainen	<a href="#">Radiative transfer in light based tomography</a>
16:00	break	
16:15–17:00	Visit to FMI, canceled due to renovations	
18:00–	Conference pizza (at own cost), Vaelsa, Pohjoisesplanadi 9	

Tuesday 7.5.2019		
09:00	Mika Juvela	<a href="#">Radiative transfer modelling of the interstellar medium</a>
09:30	Jukka Kujanpää	<a href="#">Atmospheric radiative transfer model Siro and its applications</a>
10:00	Hannakaisa Lindqvist	<a href="#">Light scattering by atmospheric particles: From fascinating model details to a challenge in space-based greenhouse gas retrievals</a>
10:30	break	
11:00	Petri Räisänen	<a href="#">On the computation of apparent direct solar radiation</a>
11:30	Alexander Bykov	<a href="#">Selected problems of radiative transfer in optical biomedical diagnostics</a>
11:45	Viktor Dremin	<a href="#">Monte Carlo simulation of diffuse reflectance spectra for quantitative assessment of physiological properties of human skin</a>
12:00	Alexey Popov	<a href="#">Biotissue-mimicking phantoms for biophotonics applications</a>
12:15	lunch (at own cost)	
13:00	discussion	

14:00–15:  
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Visit to University of Helsinki scattering laboratory