

**Mini-Workshop****EULAG – New developments in high resolution cloud modeling**

at Institute for Atmospheric Physics, Johannes Gutenberg University Mainz

21 – 23 October 2013, Senatssaal, Naturwissenschaftliches Gebäude

**Monday, 21 October 2013:**

15:30 - 16:30 Piotr Smolarkiewicz, ECMWF, Reading, UK:  
EULAG, a Computational Model for Multiscale Flows in Geo- and Solar-Physics

**Tuesday, 22 October 2013:**

09:00 - 10:00 Szymon Malinowski, University of Warsaw, Poland:  
High-resolution EULAG simulations of strong winds over mountains - preliminary results

10:00 - 10:30 Coffee break

10:30 - 11:30 Piotr Smolarkiewicz, ECMWF, Reading, UK:  
A unified framework for discrete integrations of soundproof and compressible PDEs of atmospheric dynamics

11:30 - 12:30 Wojciech Grabowski, NCAR, Boulder, USA:  
Anelastic and compressible solutions to selected problems of atmospheric moist dynamics

12:30 - 14:00 Lunch

14:00 - 14:40 Simon Unterstrasser, DLR Oberpfaffenhofen, Germany:  
The Lagrangian ice microphysics code LCM within EULAG: Applications and current developments

14:40 - 15:20 Antonia Kempf, Ludwig-Maximilians-Universität, Munich, Germany:  
Investigation of self-aggregation of tropical convection

15:20 - 15:50 Coffee break

15:50 - 16:10 Isabel Prestel, JGU Mainz, Germany:  
Dynamics of Banner clouds

16:10 - 16:50 Matthias Voigt, JGU Mainz, Germany:  
Inhomogeneities in cirrus clouds: Spectral analysis of idealized 2D simulations

16:50 - 17:30 Peter Spichtinger, JGU Mainz, Germany:  
Idealized warm fronts and cirrus clouds

19:30 Joint dinner at Brauhaus Eisgrub

**Wednesday, 23 October 2013:**

09:00 - 10:00 Wojciech Grabowski, NCAR, Boulder, USA:  
Effects of cloud turbulence on collision-coalescence in maritime shallow convection

Organizers: Prof. Peter Spichtinger and Dr. Philipp Reutter, IPA/JGU Mainz  
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