

# ReSoLVE 3rd science meeting, Oulu, Hotel Lasaretti, 11.-13.5.2015

## Program

### Monday 11.5

09:30 Coffee

10:00 Kalevi Mursula: The mission of ReSoLVE

10:20 Maarit Käpylä: [A solar-like DNS model with multiple dynamo modes: a possible mechanism for producing long-term modulation in solar activity](#)

10:50 Nigul Olsper: [D2 and EMD in action: applications to vivo and silico data](#)

11:10 Fred Gent: [Projecting 3D solar atmospheric models from 2D HMI magnetograms of the photosphere](#)

11:40 Kalevi Mursula: Solar polar fields from terrestrial polar fields

12:00 Lunch

13:30 Ilpo Virtanen: [North south asymmetry in the photospheric and coronal magnetic fields observed by different instruments](#)

14:00 Iiro Virtanen: [Modeling solar magnetic fields with the surface flux transport model](#)

14:20 Liyun Zhang: [Maps of predicted distribution of solar flares](#)

14:50 Tibebe Getachew: [Structure of the photospheric magnetic field during HMF sector crossings](#)

15:20 Jennimari Koskela: [Comparing the heliospheric magnetic field at the coronal base and Earth's orbit](#)

15:40 Coffee

16:00 Board meeting (team leaders only)

### Tuesday 12.5

09:00 Pauli Väisänen: [Long-term evolution of solar wind turbulence observed by Cluster](#)

09:20 Timo Qvick: [Drivers of geomagnetic storms during 1964-2012](#)

09:40 Lauri Holappa: [A new method to estimate contributions of CMEs and high-speed streams to geomagnetic activity](#)

10:10 Daniel Martini: [Geomagnetic Sq-variation revisited](#)

10:40 Coffee

11:00 Eija Tanskanen: [Geomagnetic activity during elongated coronal holes](#)

11:30 Shabnam Nikbakhsh: [Effects of solar active region complexity to geomagnetic activity](#)

11:50 Reko Hynönen: [Solar wind ULFs and ground Pc5 pulsations during solar cycle 23](#)  
12:10 Lunch  
13:30 Pyry Peitso: [Greenland magnetic disturbances: ascending phase 24](#)  
13:50 Liisa Juusola: [Ionospheric equivalent currents and their time derivatives](#)  
14:20 Heikki Vanhamäki: [Swarm satellite mission: Status, data and a new analysis method](#)  
14:50 Coffee  
15:10 Agnieszka Gil: [Recurrent variations of the galactic cosmic rays intensity](#)  
15:40 Ari-Pekka Leppänen: [Factors influencing cosmogenic Be-7 and Na-22 isotope concentrations at ground level](#)  
16:10 Albert Ossò: [How robust are observed trends in the Brewer-Dobson Circulation?](#)  
16:40 Discussions  
17:00 Walk to the dinner restaurant if weather allows  
18:00 Dinner

### **Wednesday 13.5**

09:00 Timo Asikainen: [Long-term variation and solar wind drivers of energetic electron precipitation](#)  
09:30 Tuomas Turpeinen: [Simulation of NOAA/MEPED electron instrument](#)  
09:50 Miro Ruoposa: [Reconstruction of energetic electron precipitation for the past 150 years](#)  
10:10 Coffee  
10:30 Katerina Andréevová: [Comparison of ICME and SIR-related pressure pulses 1998-2011](#)  
10:50 Ilya Usoskin: [Modern status of long-term solar activity reconstructions and separation of different dynamo modes](#)  
11:20 Eleanna Asvestari: [Semi-empirical model of CR modulation and its verification by cosmogenic radionuclides](#)  
11:40 Stepan Poluianov: [Cosmogenic production and climate contributions to nitrate record in the TALDICE Antarctic ice core](#)  
12:00 Lunch  
13:00 Anton Artamonov: [Atmospheric ionization due to the precipitating particle: Analytical approach and Monte Carlo calculations](#)  
13:20 Alexander Mishev: [Ionization effect of GLEs: Assessment from NM data](#)  
13:40 Jaakko Astikainen: [Long-term occurrence of CMEs](#)  
14:00 Amr Hamada: [Identifying coronal holes from synoptic maps of SOHO/EIT EUV images](#)  
14:20 Coffee

14:40 Antti Salminen: [The effect of magnetospheric particle precipitation on atmospheric ozone](#)

15:00 Ville Maliniemi: [Long-term relation between geomagnetic activity and Northern Hemisphere winter circulation](#)

**List of participants (38 total):**

**HELIOS team**

Kalevi Mursula, Professor, ReSOLVE leader, HELIOS team leader  
Ilpo Virtanen, PostDoc, ReSoLVE coordinator  
Albert Ossó, PostDoc  
Liyun Zhang, Postdoc  
Iiro Virtanen, PhD student  
Lauri Holappa, PhD student  
Jennimari Koskela, PhD student  
Tibebu Getachew, PhD student  
Pauli Väisänen, MSc student  
Timo Qvick, MSc student  
Antti Salminen, BSc student  
Elina Heikkinen, BSc student

**COSMIC team**

Ilya Usoskin, Professor, COSMIC team leader  
Alexander Mishev, PostDoc  
Eleanna Asvestari, PhD student  
Stepan Poluianov, PhD student  
Anton Artamonov, PhD student

**ENERGETIC team**

Timo Asikainen, Academy research fellow, ENERGETIC team leader  
Ville Maliniemi, PhD student  
Amr Hamada, PhD student  
Miro Ruopasa, MSc Student  
Jaakko Astikainen, BSc student  
Tuomas Turpeinen, BSc student

### **MAGNETIC team**

Eija Tanskanen, Professor, MAGNETIC team leader  
Pyy Peitso, PhD student  
Reko Hynönen, PhD student  
Shabnam Nikbakhsh, PhD student  
Katerina Andréevová, PostDoc  
Liisa Juusola, PostDoc  
Joonas Viuhon, M.Sc student

### **DYNAMO team**

Maarit Käpylä, Docent, DYNAMO team leader  
Fred Gent, PostDoc  
Nigul Olsper, PhD student

### **Other participants**

Agnieszka Gil, PhD, Univ. of Siedlce, Poland  
Ari-Pekka Leppänen, PhD, STUK, Rovaniemi  
Daniel Martini, PhD, Tromsø Geophysical Observatory  
Niina Mäkinen, research trainee  
Heikki Vanhamäki, PhD, Oulu EISCAT team