

**SPP PROM all-hands meeting**  
**Monday, 25 July to Wednesday, 27 July 2022**  
**Location: UFS Schneefernerhaus, Zugspitze and remotely**

Zoom-Link:

<https://uni-bonn.zoom.us/j/69729027277?pwd=TTRMNIM0RTZBQmFmMWRSa2sxTIZVUT09>

Meeting-ID: 697 2902 7277

Kenncode: 785074

**Monday, 25 July 2022**

13:00-14:00: Joint Lunch at [Sonnalpin](#) (Train Station: Zugspitzplatt)

14:00-15:00: Transfer to Schneefernerhaus and checkin

15:00-15:15: Welcome

**Talks for each project: 20 min. time frame + 10 min. discussion**

15:15-15:45: **Polarimetry Influenced by CCN aNd INP in Cyprus and Chile (PICNICC)**  
(PIs: Heike Kalesse-Los, Patric Seifert, Johannes Quaas)

**PI (Uni Leipzig): Heike Kalesse-Los** (representing Audrey Teisseire & Teresa Vogl)

15:45-16:15: **An efficient volume scan polarimetric radar forward OPERAtor to improve the representaTION of HYDROMETEORS in the COSMO model (Operation Hydrometeors)** (PIs: Silke Trömel, Clemens Simmer, Ulrich Blahak)

**PostDoc (DWD): Jana Mendrok**

**PhD (Uni Bonn): Velibor Pejicic** (remote)

16:15-16:45: **A seamless column of the precipitation process from mixed-phase clouds employing data from a polarimetric C-band radar, a microrain radar and disdrometers (HydroColumn)** (PI: Michael Frech)

**PI (DWD): Michael Frech** (remote)

16:45-17:15: **time buffer / Break**

17:15-17:45: **Understanding ice microphysical processes using multi-frequency radar polarimetry and super-particle modeling (IMPRINT)** (PIs: Stefan Kneifel und Axel Seifert)

**PhD (Uni Col): Leonie von Terzi**

**PhD (DWD): Jan-Niklas Welss** (remote)

**17:45-18:15: A Low-cost Mechanically-Steered Phased-Array Polarimetric Doppler Weather Radar (WRAD)** (PIs: Stefano Turso, Thomas Bertuch, Clemens Simmer, Silke Trömel)

**Fraunhofer (FHR): Stefano Turso**

**18:15-19:45: Dinner**

## **Tuesday, 26 July 2022**

**09:00-10:30:** Guided tour around the Schneesfernerhaus facilities

**10:30-11:00:** Radar microphysical retrievals and climatology of the vertical profiles of microphysical variables in different weather systems

**Alexander Ryzhkov** (Member of scientific advisory board / NOAA)

**11:00-11:30:** The synergistic use of polarimetric radar data and spectral bin models for improving weather nowcasting

**Jacob Carlin** (NOAA, invited speaker)

**11:30-13:30:** Lunch

**13:30-14:00:** Polarimetric signatures of ice microphysical processes and their interpretation using in-situ observations and cloud modeling (POLICE) (PIs: Silke Trömel, Clemens Simmer, Christiane Voigt)

**PhD (DLR): Manuel Moser** (remote)

**PhD (Uni Bonn): Armin Blanke**

**14:00-14:30:** Investigation of the initiation of convection and the evolution of precipitation using simulations and polarimetric radar observations at C- and Ka-band (IcePolCKa) (PIs: Tobias Zinner, Florian Ewald, Christoph Knote)

**PhD (LMU): Gregor Köcher**

**PhD (DLR): Eleni Tetoni**

**PhD (DLR): Christian Heske**

**14:30-15:00:** Climate model PArAmeterizations informed by RAdar (PARA) (PIs: Johannes Quaas, Silke Trömel)

**PhD (Uni Bonn): Tobias Scharbach**

**15:00-15:30:** time buffer / Break

**15:30-16:00: Spectrally resolved Polarimetric Observation and Computation of Clouds (SPOCC): Toward the retrieval of hydrometeor ratios during onset of precipitation** (PIs: Patric Seifert and Oswald Knoth)

**PhD (TROPOS): Majid Hajipour**

**16:00-16:30: Representing model error and observation Error uncertainty for Data assimilation of POLarimetric radar measurements (REDPOL)** (PIs: Tijana Janjic Pfander and Axel Seifert)

**PhD (LMU): Florian Semrau (remote)**

**Closed project:**

**16:30-17:00: Investigating the impact of Land-use and land-cover change on Aerosol-Cloud-precipitation interactions using Polarimetric Radar retrievals (ILACPR)**  
(PI: Prabhakar Shrestha)

**PostDoc (Uni Bonn): Prabhakar Shrestha (remote)**

**17:00-17:20: [time buffer / Break](#)**

**New projects: 10 min. Talks + 10 min. discussion**

**17:20-17:40: Exploring the role of fragmentation of ice particles by combining super-particle modelling, laboratory studies, and polarimetric radar observations (FRAGILE)**  
(PIs: Miklós Szakall, Stefan Kneifel und Axel Seifert)

**PI (Uni Mainz): Miklós Szakall (remote, representing Alexander Theis)**

**17:40-18:00: Characterisation of orographically influenced ripening and secondary ice production and their effects on precipitation rates by radar polarimetry and Doppler spectra (CORSIPP)** (PIs: Heike Kalesse-Los, Maximilian Maahn)

**PhD (Uni Leipzig): Anton Kötsche**

**PostDoc (Uni Leipzig): Isabelle Steinke**

**18:00-19:45: [Dinner](#)**

## Wednesday, 27 July 2022

09:00-09:20: **Polarimetric Radar simulations with realistic Ice and Snow properties and mulTifrequeNcy consistency Evaluation (PRISTINE)** (PIs: Davide Ori, Ulrich Blahak)

**PI (Uni Köln): Davide Ori**  
**PostDoc (Uni Köln): Jana Mendrok**

09:20-09:40: **Combining radar POLarimetry, weather forecast MOdel outputs and DOppler radar observations for RIming analysis (POMODORI)** (PIs: Stefan Kneifel, Michael Frech)

**PI (Uni Köln): Stefan Kneifel**

09:40-10:00: **time buffer / Break**

10:00-10:20: **Polarimetric Radar Signatures of Ice Formation Pathways from Controlled Aerosol Perturbations (PolarCAP)** (PIs: Patric Seifert, Fabian Senf)

**PostDoc (TROPOS): Kevin Ohneiser**  
**PostDoc (TROPOS): Willi Schimmel**

10:20-10:40: **Application of the cloud microphysics model COSMO-SPECS**

**PostDoc (TROPOS, associated member): Roland Schrödner**

10:40-12:00: **Discussions / Break-out sessions**

12:00-13:00: **Lunch either at Sonnalpin or already in the Panorama Restaurant at Zugspitze Summit (optional)**

13:00-15:00: **Optional trip to Zugspitze summit and guided tour to DWD weather station at Zugspitze, maximum 20 people per tour.**  
**The first tour starts 13:00 CEST, the second possible tour would start 14:00 CEST** (If you like to catch a special train home, please have in mind, that the time needed for the way down from the summit to the train station Garmisch-Partenkirchen may vary considerably, see also the “Logisticinfo\_allhandsmeeting” document).

**End of the meeting**