

**SPP PROM all-hands meeting**  
**Monday, 17 July to Wednesday, 19 July 2023**  
**Location: Düsternbrooker Weg 2, 24105 Kiel, Seeburg**

**Monday, 17 July 2023**

14:15-14:30: Welcome

**Time frames: 15 min. per person/subproject + 10 min. discussion per project**

14:30-15:10: **Polarimetry Influenced by CCN aNd INP in Cyprus and Chile (PICNICC)**  
(PIs: Heike Kalesse-Los, Patric Seifert, Johannes Quaas)

14:30-14:45: **PhD (TROPOS): Audrey Teisseire**

14:45-15:00: **PhD (Uni Leipzig): Teresa Vogl (or Heike Kalesse-Los)**

15:00-15:10: Discussion

15:10-15:50: **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)

15:10-15:25: **PostDocs (DWD): Mendrok, Phase 1, K. Khosravian, Phase 2**

15:25-15:40: **PhD/PostDoc (Uni Bonn): V. Pejdic, Phase 1, J. Steinheuer, Phase 2**

15:40-15:50: Discussion

15:50-16:35: **Short Break**

16:35-17:00: **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)

16:35-16:50: **PostDoc (DWD): Mathias Gergely**

16:50-17:00: Discussion

17:00-17:25: **Understanding ice microphysical processes using multi-frequency radar polarimetry and super-particle modeling (IMPRINT)** (PIs: Stefan Kneifel und Axel Seifert)

17:00-17:15: **PhD (Uni Köln), now PostDoc (LMU): Leonie v. Terzi, Phase 1**

17:15-17:25: Discussion

17:25-17:50: **A Low-cost Mechanically-Steered Phased-Array Polarimetric Doppler Weather Radar (WRAD)** (PIs: Stefano Turso, Thomas Bertuch, Clemens Simmer, Silke Trömel)

17:25-17:40: **Fraunhofer (FHR): Stefano Turso**

17:40-17:50: Discussion

**17:50-18:15: Radar microphysical retrievals and climatology of the vertical profiles of microphysical variables in different weather systems**

17:50-18:05: **Alexander Ryzhkov** (Member of scientific advisory board / NOAA)

18:05-18:15: Discussion

From 19:00: [Joint dinner in Kiel](#)

**Tuesday, 18 July 2023**

**09:00-09:25: The synergistic use of polarimetric radar data and spectral bin models for improving weather nowcasting**

09:00-09:15: **Jacob Carlin** (NOAA, invited speaker)

09:15-09:25: Discussion

**09:25-09:50: Polarimetric signatures of ice microphysical processes and their interpretation using in-situ observations and cloud modeling (POLICE)** (PIs: Silke Trömel, Clemens Simmer, Christiane Voigt)

09:25-09:40: **PhD (Uni Bonn): Armin Blanke (online)**

09:40-09:50: Discussion

**09:50-10:30: 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)

09:50-10:05: **PhD (LMU): Gregor Köcher**

10:05-10:20: **PhD (DLR): Christian Heske**

10:20-10:30: Discussion

**10:30-11:15: Short Break**

**11:15-11:40: Climate model PArAmeterizations informed by RAdar (PARA)**  
(PIs: Johannes Quaas, Silke Trömel)

11:15-11:30: **PhD (Uni Bonn): Tobias Scharbach**

11:30-11:40: Discussion

**11:40-12:20: 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)

11:40-11:55: **PhD (TROPOS): Junghwa Lee (or Patric Seifert)**

11:55-12:10: **PhD (TROPOS): Majid Hajipour (or Patric Seifert)**

12:10-12:20: Discussion

**12:20-13:00: Characterisation of orographically influenced riming and secondary ice production and their effects on precipitation rates by radar polarimetry and Doppler spectra (CORSIPP) (PIs: Heike Kalesse-Los, Maximilian Maahn)**

12:20-12:35: **PhD (Uni Leipzig): Anton Kötsche**

12:35-12:50: **PostDoc (Uni Leipzig): Veronika Ettrichrätz**

12:50-13:00: Discussion

**13:00-14:50: Individual Lunch Kiel Fjord  
and walking transfer of 700m/15 min walk to Pier “Seegarten”**

**14:50-15:50: Boat cruise “Fördetörn”, departure 15:05, from Pier “Seegarten” to Laboe with individual sightseeing in Laboe afterwards. Philipp will hand out the tickets in advance!**

**From 17:30: Individual dinner in Laboe and transfer back to Kiel**

## **Wednesday, 19 July 2023**

**08:30-09:15: Overall discussion, organization of joint conference and next steps**

**09:15-10:10: 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)**

09:15-09:30: **PostDoc (LMU): Leonie v. Terzi**

09:30-09:45: **PhD Student (Uni Mainz): Sudha Yadav**

09:45-10:00: **Scientist (DWD): Simone Wald**

10:00-10:10: Discussion

**10:10-10:50: Polarimetric Radar simulations with realistic Ice and Snow properties and multi-frequency consistency Evaluation (PRISTINE) (PIs: Davide Ori, Ulrich Blahak)**

10:10-10:25: **PostDoc (Uni Köln): Soumi Dutta**

10:25-11:40: **PostDoc (DWD): Jana Mendrok**

11:40-10:50: Discussion

**10:50-11:20: Short Break**

**11:20-12:00: Combining radar Polarimetry, weather forecast Model outputs and Doppler radar observations for Riming analysis (POMODORI) (PIs: Stefan Kneifel, Michael Frech)**

11:20-11:35: **PhD (LMU): Paul Ockenfuss**  
11:35-11:50: **PostDoc (DWD): Mathias Gergely**  
11:50-12:00: Discussion

**12:00-12:45: Polarimetric Radar Signatures of Ice Formation Pathways from Controlled Aerosol Perturbations (PolarCAP)** (PIs: Patric Seifert, Fabian Senf)

12:00-12:15: **PostDoc (TROPOS): Kevin Ohneiser**  
12:15-12:30: **PostDoc (TROPOS): Willi Schimmel**  
12:30-12:35: **Status COSMO-SPECS Model by Roland Schrödner**  
12:35-12:45: Discussion

**End of the meeting**