



SPP 2115



PROM-RealPEP-all-hands meeting 2025

3 and 4 November 2025

Location: Seminar room, Guesthouse of the University of Heidelberg
Im Neuenheimer Feld 370, 69120 Heidelberg

Part 1: SPP 2115 PROM

Monday, 3 November 2025

13:00 – 13:10: Welcome by Silke Trömel

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

13:10 – 14:05: Exploring the role of FRAGmentation of ice particles by combining super-particle modelling, Laboratory studies, and polarimetric radar observations (FRAGILE) (PIs: Miklós Szakáll, Stefan Kneifel, Axel Seifert)

13:10 – 13:40: **PostDoc (LMU): Leonie von Terzi** (includes results from DWD-partner)

13:40 – 13:55: **PI (Uni Mainz): Miklós Szakáll**

13:55 – 14:05: Discussion

14:05 – 14:45: 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)

14:05 – 14:20: **PhD (Uni Leipzig): Anton Kötsche**

14:20 – 14:35: **PostDoc (Uni Leipzig): Veronika Ettrichrätz**

14:35 – 14:45: Discussion

14:45 – 15:25: Polarimetric Radar simulations with realistic Ice and Snow properties and multi-frequency consistency Evaluation (PRISTINE) (PIs: Davide Ori/Susanne Crewell, Ulrich Blahak)

14:45 – 15:00: **PostDoc (Uni Köln): Soumi Dutta**

15:00 – 15:15: **PostDoc (DWD): Jana Mendrok**

15:15 – 15:25 Discussion

15:25 – 15:55: Short Break

15:55 – 16:30: Combining radar Polarimetry, weather forecast Model outputs and Doppler radar observations for RIming analysis (POMODORI) (PIs: Stefan Kneifel, Michael Frech)

15:55 – 16:20: **PhD (LMU): Paul Ockenfuß (includes results from DWD-partner)**

16:20 – 16:30: Discussion

16:30 – 17:10: 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)

16:30 – 16:45: **PostDoc (LMU): Gregor Köcher**

16:45 – 17:00: **PI (DLR): Florian Ewald**

17:00 – 17:10: Discussion

17:10 – 17:35: A Low-cost Mechanically-Steered Phased-Array Polarimetric Doppler Weather Radar (WRAD) (PIs: Stefano Turso, Thomas Bertuch, Clemens Simmer, Silke Trömel)

17:10 – 17:25: **Fraunhofer (FHR): Stefano Turso**

17:25 – 17:35: Discussion

From 19:00: Joint Dinner, Restaurant Tati, Bergheimer Str. 147, 69115 Heidelberg

Tuesday, 4 November 2025

9:00 – 9:40: 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)

9:00 – 9:15: **PostDocs (DWD): Kobra Khosravian**

9:15 – 9:30: **PostDoc (Uni Bonn): Julian Steinheuer**

9:30 – 9:40: Discussion

9:40 – 10:05: 3D wind retrievals for the analysis of hailstorm dynamics in Germany and the USA (Understanding Large Hail Formation and Trajectories, LIFT)

9:40 – 9:55: **PhD (Uni Bonn): Tobias Scharbach**

9:55 – 10:05: Discussion

10:05 – 10:25: **Short Break**

10:25 – 11:05: Polarimetric Radar Signatures of Ice Formation Pathways from Controlled Aerosol Perturbations (PolarCAP) (PIs: Patric Seifert, Fabian Senf)

10:25 – 10:40: **PI (TROPOS): Patric Seifert**

10:40 – 10:55: **PI (TROPOS): Fabian Senf (online)**

10:55 – 11:05: Discussion

11:05 – 12:00: Discussions on:

- 1) PROM-conclusions
- 2) Joint plans
- 3) Publications
- 4) Final report
- 5) Others

12:00 – 13:00: **Joint Lunch**

Part 2: RealPEP all-hands meeting 2025

4 November 2025

13.00 – 13.10: Welcome by Silke Trömel

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

13.10 – 13.55: P1 QPE: Physics-based QPE using polarimetric radars and commercial microwave links (PIs: Silke Trömel, Clemens Simmer, Christian Chwala, Harald Kunstmann)

13.10 – 13.30: PostDoc (Uni Bonn): Raquel Evaristo (includes updates from C1-project)

13.30 – 13.45: PI (KIT): Christian Chwala

13.45 – 13.55: Discussion

13.55 – 14.35: P2+C1 QPN: Object-based weather analysis and Nowcasting (PIs: Silke Trömel, Clemens Simmer, Cintia Carbajal Henken), ongoing with KU Leuven (Ricardo Reinoso-Rondinel)

13.55 – 14.10: PostDoc (FU Berlin): Cintia Carbajal Henken

14.10 – 14.25: Assistant Prof. (KU Leuven; RMI) Ricardo Reinoso-Rondinel

14.25 – 14.35: Discussion

14.35 – 14.55: Short Break

14.55 – 15.35: P3 QPF: Assimilation of polarimetric information and observation-based nowcasted fields in numerical weather prediction (PIs: Silke Trömel, Clemens Simmer, Roland Potthast)

14.55 – 15.10: PhD (Uni Bonn): Armin Blanke

15.10 – 15.25: PI (DWD) Roland Potthast

15.25 – 15.35: Discussion

15:35 – 16:00: P4 Hydro: Evaluation of QPE and QPN improvements in a flash flood nowcasting framework with data assimilation (PIs: Stefan Kollet, Harrie-Jan Hendricks Franssen)

15:35 – 15:50: **PI (Forschungszentrum Jülich; University of Bonn): Stefan Kollet**
15:50 – 16:00: Discussion

16:00 – 16:45: Discussions on:

- 1) Finalize joint RealPEP publication and flowchart discussion
- 2) Final reports
- 3) Others

End of the meeting

Venue of PROM and RealPEP all-hands meeting:
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