Venue: Universitätsclub Bonn e.V., Konviktstr.9, 53113 Bonn (directions)

Monday, 4 September

8:30 – 9:25	Check-in and registration
9:30 - 9:45	Introduction by the organizers
9:45 - 11:00	AI-based forecasting I
	Global weather forecasting with GraphCast (Ferran Alet / Alvaro Sanchez, Google DeepMind)
	PanguWeather (Lingxi Xie, Huawei Research)
11:00 - 11:30	Coffee break
11:30 - 12:15	Discussion: Evaluation (led by Stephan Rasp, Google Research, with an introduction to WeatherBench 2)
12:15 - 12:45	Short talks I
	GraphCast for a limited area numerical weather prediction model (Joel Oskarsson)
	A Multi-Scale Deep Learning Framework for Projecting Weather Extremes (Antoine Blanchard)
12:45 - 14:00	Lunch
14:00 - 15:15	AI-based forecasting II
	FengWu (Lei Bai, Shanghai Artificial Intelligence Laboratory)
	The Moonshot Project: towards multi-source AI forecasting (Tom Dunston, UK Met Office)
15:15 - 15:45	Coffee break
15:45 - 16:30	Results on evaluation of current models (Zied Ben Bouallegue, ECMWF)
16:30 - 17:15	Discussion: ERA6 and future data sets (Matthew Chantry, ECMWF)
19:00 - 22:00	Workshop dinner: Tuscolo Münsterblick, Gerhard-von-Are-Straße 8, 53111 Bonn

Tuesday, 5 September

9:30 - 10:45	AI-based forecasting III
	Neural General Circulation Models (Stephan Hoyer, Google Research)
	Spherical Fourier Neural Operator (Boris Bonev, NVIDIA)
10:45 - 11:15	Coffee break
11:15 - 12:00	Discussion: sub-seasonal, seasonal forecasting and climate projections
12:00 - 12:45	Short talks II
	Creating skilful and reliable probabilistic forecasts using machine learning (Mariana Clare)
	Generative DL for high-resolution regional forecasting: a proof-of-concept (Laure Raynaud)
	Uncertainty quantification for data-driven weather models (Sebastian Lerch)
12:45 - 14:00	Lunch
14:00 - 14:35	AtmoRep: Large Scale Representation Learning of Atmospheric Dynamics (Christian Lessig, ECMWF)
14:35 - 15:15	Discussion: Learning from observations (Jörg Schultz, EUMETSAT)
15:15 - 15:45	Coffee break
15:45 - 16:30	Discussion: Towards operationalization (Baudouin Raoult, ECMWF)
16:30 - 17:00	Closing remarks