

4th International Workshop on Cloud Turbulence (online) , March 9-11, 2022, NITech, Nagoya, Japan

JST	Chair	March 9	
13:10-13:20	Watanabe	Gotoh Toshiyuki	Opening
13:20-13:40		Shaw Raymond	Relative roles of mean and fluctuating supersaturation in cloud formation
13:40-14:00		Tajiri Takuya	MRI adiabatic-expansion-type cloud chamber experiments: CCN and INP abilities of atmospheric aerosol particles measured at Tsukuba, Japan
14:00-14:20		Yang Fan	Comparison of large-eddy simulations of a convection cloud chamber using various microphysics and advection schemes
14:20-14:40		Krueger Steven	Supersaturation variability in clouds and in the Pi Chamber
14:40-14:45	Break		
14:45-15:05	Krueger	Grabowski Wojciech	Impact of turbulence on CCN activation and early growth of cloud droplets
15:05-15:25		Chen Sisi	Understanding cloud-aerosol-turbulence interactions in warm and mixed-phase clouds: DNS approach and application
15:25-15:45		Kumar Bipin	Direct numerical simulations of CCN activation: response to particle characteristics
15:45-16:05		Hoffmann Fabian	The importance of small-scale dynamical processes for aerosol-cloud interactions
16:05-16:10	Break		
16:10-16:30	Xu	Bagheri Gholamhossein	The Max Planck CloudKite (MPCK): airborne measurement of cloud microphysics and turbulence
16:30-16:50		Molacek Jan	In situ measurements of cloud droplet clustering at Zugspitze
16:50-17:10			Discussion
JST	March 10		
13:00-13:20	Gotoh	Sreenivasan Katepalli Raju	Special lecture Three comments (loosely) related to clouds
13:20-13:40			
13:40-14:00		Yeung, P.K.	Stokes point-particle dynamics: small-scale turbulence structure and contrast between forward and backward dispersion
14:00-14:20		Ishihara Takashi	DNS data analysis of the collision processes of inertial particles in high Reynolds number turbulence
14:20-14:40		Kobayashi Hiromichi	A Langevin model for gradients of passive scalar in isotropic turbulence
14:40-14:45	Break		
14:45-15:05	Meiburg	Xu Haitao	Experimental study of droplet motion in a plane traveling wave
15:05-15:25		Tsuji Yoshiyuki	Small particles motions in super fluid turbulence
15:25-15:45		Watanabe Takeshi	On the behavior of microbubbles in isotropic turbulence
15:45-16:05		Gorokhovski Mikhael	"Intuitive" models of a droplet in the under-resolved turbulence: breakup, dispersion and evaporation.
16:05-16:10	Break		
16:10-16:30	Gorokhovski	Pumir Alain	Settling and collision of ice crystals in turbulent clouds
16:30-16:50		Meiburg Eckart	Aggregation of cohesive particles in homogeneous isotropic turbulence
16:50-17:10			Discussion
JST	March 11		
13:00-13:20	Ishihara	Onishi Ryo	Microscopic simulations of cloud particle growth
13:20-13:40		Chandrakar Kamal Kant	Supersaturation variability from scalar mixing: evaluation of a new subgrid-scale model using direct numerical simulations of turbulent Rayleigh-Bénard convection
13:40-14:00		Lu Chunsong	Interactions between entrainment-mixing mechanisms and cloud droplet spectral width
14:00-14:20		Yin Chongzhi	Simulation of drizzling marine stratocumulus using the super-droplet method: numerical convergence and comparison to a double-moment bulk scheme
14:20-14:40		Shima Shin-Ichiro	Three-dimensional simulation of a cumulonimbus using the super-droplet method: first preliminary results
14:40-14:45	Break		
14:45-15:05	Shima	Rosa Bogdan	Numerical modeling of dispersed turbulent flows considering particle-scale interactions
15:05-15:25		Arabas Sylwester	Supercooling super-droplets: on particle-based modelling of immersion freezing
15:25-15:45		Schumacher Jörg	Extreme vorticity events in turbulent Rayleigh-Bénard convection from stereoscopic particle image velocimetry and recurrent neural networks
15:45-16:05		Bodenschatz Eberhard	Cloud microphysics metrology applied to human drops and aerosols
16:05-16:25		Gotoh Toshiyuki	Statistical properties of supersaturation fluctuations in cloud turbulence
16:25-16:45			Discussion and Closing

Time Table of Workshop (20 min =15 +5)

Time is in Japan Standard Time

JST	March 9	JST	March 10	JST	March 11
13:10-13:20	Opening	13:00-13:20	Sreenivasan, K.R.	13:00-13:20	Onishi, R.
13:20-13:40	Shaw, R.	13:20-13:40		13:20-13:40	Chandrakar, K.K.
13:40-14:00	Tajiri, T.	13:40-14:00	Yeung, P.K.	13:40-14:00	Lu, C.
14:00-14:20	Yang, F.	14:00-14:20	Ishihara, T.	14:00-14:20	Yin, C.
14:20-14:40	Krueger, S.	14:20-14:40	Kobayashi, H.	14:20-14:40	Shima, S.
14:40-14:45	Break	14:40-14:45	Break	14:40-14:45	Break
14:45-15:05	Grabowski, W.	14:45-15:05	Xu, H.	14:45-15:05	Rosa, B.
15:05-15:25	Chen, S.	15:05-15:25	Tsuji, Y.	15:05-15:25	Arabas, S.
15:25-15:45	Kumar, B.	15:25-15:45	Watanabe, T.	15:25-15:45	Schumacher, J.
15:45-16:05	Hoffmann, F.	15:45-16:05	Gorokhovski, M.	15:45-16:05	Bodenschatz, E.
16:05-16:10	Break	16:05-16:10	Break	16:05-16:25	Gotoh, T.
16:10-16:30	Bagheri, G.	16:10-16:30	Pumir, A.	16:25-16:45	Discussion and Closing
16:30-16:50	Molacek, J.	16:30-16:50	Meiburg, E.		
16:50-17:10	Discussion	16:50-17:10	Discussion		

Japan (JST)	China (CST)	India (IST)	EU (CET)	USA (EST)	USA (MST)	USA (PST)
13:00-17:00	12:00-16:00	09:30-13:30	5:00-9:00	23:00-03:00	21:00-01:00	20:00-24:00