Nov 30, 2021

9:00		SOC	Welcome
9:05	15+5	H. Kobayashi (NAOJ)	SKA project status
9:25	15+5	D. Iono (NAOJ)	ngVLA project status

Epoch of Reionization, Cosmology, Galaxy Formation and Evolution (Chair: K. Ichiki)

9:45	20+5	H. Tashiro (Nagoya University)	Cosmology with radio telescopes
10:10	20+5	A. K. Inoue (Waseda University)	Galaxy formation with large interferometers and synergies with optical/IR telescopes
10:45	20+5	T. T. Takeuchi (Nagoya University)	Star Formation in Galaxies from Radio Continuum: Prospects to the Radio Astronomy in 2030s
11:10	20+5	K. Tadaki (NAOJ)	Redshifted CO line emission with ngVLA and SKA
11:35	Discussion		

The Solar System and Stars (Chair: T. Hirota)

13:00	20+5	H. Imai (Kagoshima University)	Circumstellar Physics and Masers
13:25	20+5	H. Sagawa (Kyoto Sangyo University)	Prospect of studying planetary atmosphere with large interferometers
13:50	20+5	M. Shimojo (NAOJ)	Stellar atmosphere and activities observed with decimeter--millimeter waves
14:15	20+5	Y. Otsuka (Nagoya University)	GNSS observations of ionospheric disturbances at low and middle latitudes
14:40	Discussion		

Poster talks and discussion (chair: T. Akahori, D. Iono)

15:10	14 x 3min	S. Notsu (Riken)	Investigating the impact of X-rays on the molecular abundances of inner envelopes and disks around low-mass protostars with ALMA and ngVLA
		H. Nagai (NAOJ)	Linking AGN-Starburst with ALMA and low-frequency VLBI
		H. Sakemi (Kagoshima University)	Interaction between an AGN jet and the intra-cluster magnetic field seen by MeerKAT: I. Observation
		T. Ohmura (University of Tokyo)	Interaction between an AGN jet and the intra-cluster magnetic field seen by MeerKAT: II. Numerical Simulation
		H. Okino (University of Tokyo)	Global jet structure of quasar 3C 273 with multi-frequency VLBI observations
		M. Kobayashi (NAOJ)	Turbulent star formation theory and its possible test through the multiphase ISM observations
		K. Tsuge (Friedrich-Alexander University Erlangen-Nürnberg)	Formation of massive clusters triggered by tidally-driven colliding HI flows
		T. Nishioka (Nagoya University)	Star-forming filamentary molecular clouds formed by colliding HI flows in the nearby cloud and the Large Magellanic Cloud
		F. Demachi (Nagoya University)	High-mass star formation in GMCs : M100
		H. Sano (NAOJ)	Interstellar Hydrogen in Gamma-Ray Supernova Remnants as a Key to Understanding the Origin of Cosmic Rays
		M. Aruga (Nagoya University)	Molecular and Atomic Clouds Associated with the Gamma-Ray Supernova Remnant Puppis A
		S. Eie (University of Tokyo)	Wide-band radio properties of magnetar radio outbursts
		R. Omae (Sokendai)	Hidden Intervening Galaxies: Impact on Polarization Catalogues of SKA and ngVLA
		Y. Tashima (Sokendai)	Observational visualization of a spiral galaxy obtained by MHD simulations: effect of the depolarization
16:00	Discussion		

Dec 1, 2021 **Interstellar/Intergalactic/Intracluster Medium (Chair: T. Akahori)**

9:30	20+5	Y. Fujita (Tokyo Metropolitan University)	Nonthermal emissions from clusters of galaxies
9:55	20+5	M. Machida (NAOJ)	Magnetic fields of spiral galaxies via numerical simulations
10:20	20+5	H. Nakanishi (Kagoshima University)	The Milky Way Galaxy and nearby galaxies in HI
10:45	20+5	K. Tachihara (Nagoya University)	Evolution of inter-stellar clouds by molecular and atomic gas surveys
11:10	Discussion		

Star/Planet Formation and Chemistry (Chair: D. Iono)

13:00	20+5	K. Tanaka (University of Colorado)	The Hot and Dynamic Birth of Massive Stars
13:25	20+5	M. Momose (Ibaraki University)	Structure of protoplanetary disks and magnetosphere of exoplanets explored by continuum emission at radio wavelengths
13:50	20+5	N. Sakai (Riken)	Centimeter Wave Observations Required for Astrochemistry
14:15	20+5	T. Hirota (NAOJ)	Some specific science cases for star-planet formation studies with SKA and ngVLA
14:40	Discussion		

AGN/SMBH, Time Domain, Multi-messenger and Compact Objects (Chair: H. Nagai)

15:00	20+5	T. Oka (Keio University)	Black hole astronomy based on time and velocity domain observations
15:25	20+5	K. Niinuma (Yamaguchi University)	Time domain studies with next generation radio interferometers
15:50	20+5	K. Takahashi (Kumamoto University)	Pulsar studies with next-generation radio telescopes
16:15	20+5	K. Hada (NAOJ)	AGN observations with next-generation radio interferometers
16:40	Discussion		