

Thursday, July 15th	JST	Speaker	Title
<b>Cryogenics and 3D printing technologies</b>			
(Session Chair: T. Kojima)	9:00	General announcement and Opening	
	9:05	Alvaro Gonzalez (NAOJ)	Technical Overview of ngVLA
	9:25	Nishiki Nakashima (Sumitomo Heavy Industries, Ltd.)	SHI製冷凍装置の技術開発と保守、これまでとこれから
	9:45	Hitoshi Sakai (NTT DATA XAM TECHNOLOGIES)	金属積層造形技術の現在地とその可能性
	10:05	Keiko KANEKO (NAOJ/ATC)	Status about the optics components development using additive manufacturing technology
	10:25	Shunsuke Adachi (University of Tokyo, Kavli IPMU) (C)	Millimeter-wave absorber by using a 3D-printed mold
	10:40	Break	
<b>Optics and millimeter-wave components</b>			
(Session Chair: T. Sakai)	10:55	Yutaka Hasegawa (Osaka Prefecture University)	Design of the wideband OMTs
	11:15	Alvaro Gonzalez (NAOJ)	Optics Development for ALMA bands 1 and 2, and synergies with ngVLA
	11:35	Sho Masui (Osaka Prefecture University) (C)	広帯域円偏波分離器の開発
	11:50	Hiroaki Imada (NAOJ) (C)	Initial beam simulation of the 18-m antenna
	12:05	Ryo Sakai (NAOJ) (C)	誘電体材料評価システムの開発
	12:20	Takafumi Kojima (NAOJ) (C)	Characterization and Simulation of a Full Receiver System
<b>Computing technique and archive</b>			
(Session Chair: K. Sugimoto)	13:30	George KOSUGI (NAOJ)	Archive and Data Analysis Environment in ngVLA era
	13:50	Ken Ebisawa (JAXA)	世界の高エネルギー天文学アーカイブの状況について
	14:10	Shiro Ikeda (The Institute of Statistical Mathematics)	Challenges in imaging of ngVLA
	14:30	Takashi Tsukagoshi (NAOJ)	スパースモデリングを応用した電波干渉計画像合成法の 高解像度ALMAデータへの応用
	14:50	Masataka Aizawa (Tsung-Dao Lee Institute) (C)	Multi-frequency interferometric imaging using sparse modeling
	15:05	Break	
<b>RFI, calibration and system</b>			
(Session Chair: M. Momose)	15:20	Masatoshi Ohishi (NAOJ)	Protection of Radio Astronomy Observations in the Era of ngVLA
	15:40	Yoshiharu Asaki (NAOJ)	Consideration of the phase calibration strategy for ngVLA
	16:00	Noriyuki Kawaguchi (NAOJ)	Coherence preservation under disturbing atmosphere
	16:20	Satoru Iguchi (NAOJ) (C)	Challenging of Wavefront clock system for ngVLA
<b>Friday, July 16th</b>			
<b>Backend, DTS, Time and frequency transfer system</b>			
(Session Chair: K. Fujisawa)	9:00	Ken-ichi Harada (Elecs Industry Co.,Ltd.)	50G sample/sを見据えた AD変換器と観測機器
	9:20	Hitoshi Kiuchi (NAOJ)	Time and Frequency transfer system
	9:40	Atsushi Kanno (NICT)	Microwave photonics technologies for data, time and frequency transfer
	10:00	Break	
<b>Discussion</b>			
(Session Chair: K. Sugimoto, H. Kiuchi, K. Fujisawa, T. Kojima)	10:15	Discussion (contents circulated)	
	11:15	Closing remark	
<b>Poster presentation</b>		Hideki Ujihara (Kyoto-University/NICT)	Development of Wideband Antennas.