

WS2: Beyond Massive MIMO Workshop (Be-MM)		
Time	Title	Presenter
14:00-14:20	Ultra-Compact Dual-Polarized Dipole Antenna for Ultra-Massive MIMO Systems	Haiming Wang
14:20-14:40	Research on MIMO Channel Capacity in Complex Indoor Environment Based on Deterministic Channel Model	Lixin Guo
14:40-15:00	Analysis of System Capacity of Grant-free Access with Massive MIMO	Shidong Zhou
15:00-15:50	Keynote: Holographic MIMO Communications	Luca Sanguinetti
15:50-16:20	Tea Break	
16:20-16:40	Channel Estimation for RIS-aided mmWave Communications via 3D Positioning	Haifan Yin
16:40-17:00	Multiple Antenna Technologies Enabled by Characteristic Mode Analysis	Fenghan Lin
17:00-17:50	Keynote: A New Look at Maxwell's Equations with Shannon-Hartley Theorem	Wei Sha