



**[ThG2] [Special Session] Metamaterial/Metasurface Characterization and Application**

<b>Date / Time</b>	Oct. 25 (Thu.), 2018 / 13:20-15:00
<b>Place</b>	Room G (Sicily Room)
<b>Session Chairs</b>	Sungtek Kahng (Incheon National University, Korea) Do-Hoon Kwon (University of Massachusetts Amherst, USA)

**ThG2-1**

13:20-13:40

**Experimental Characterization of a Circular Polarizer with All-Dielectric Chiral Metasurface**

A. Yahyaoui<sup>1,2</sup>, H. Rmili<sup>1,3</sup>, T. Aguilí<sup>1</sup>, and R. Mittra<sup>3,4</sup>

<sup>1</sup>University of Tunis El Manar, Tunisia, <sup>2</sup>University of Jeddah, Saudi Arabia,

<sup>3</sup>King Abdulaziz University, Saudi Arabia, <sup>4</sup>University of Central Florida, USA

**ThG2-2**

13:40-14:00

**Main Beam Manipulation of Patch Antenna Using Non-Uniform Meta-Surface**

H. L. Zhu<sup>1</sup>, Y. X. Cao<sup>1</sup>, Can Ding<sup>2</sup>, Gao Wei<sup>1</sup>, and Y. Jay Guo<sup>2</sup>

<sup>1</sup>Northwestern Polytechnical University, China, <sup>2</sup>University of Technology Sydney, Australia

**ThG2-3**

14:00-14:20

**A Nature-Inspired Optimization Technique for Metasurfaces to Improve the Isolation between 5G MIMO Antennas**

Abdul Rehman, Changhyeong Lee, Heejun Park, Gwang-Gyun Namgung, Jinyoung Kwon, and Sungtek Kahng  
*Incheon National University, Korea*

**ThG2-4**

14:20-14:40

**Reflective Metasurfaces with an Arbitrary Prescribed Surface Field Distribution**

Do-Hoon Kwon

*University of Massachusetts Amherst, USA*

**ThG2-5**

14:40-15:00

**Study on CRLH Leaky-Wave Antenna Using Varactor-Loaded Transmission Line Resonator**

Yujiro Kushiya, Takuji Arima, and Toru Uno

*Tokyo University of Agriculture and Technology, Japan*