



[FrE2] Reflector, Lens and Radomes

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| Date / Time | Oct. 26 (Fri.), 2018 / 10:30-12:30 |
| Place | Room E (Venice Room) |
| Session Chairs | Nelson J. G. Fonseca (European Space Agency, The Netherlands) Jae W. Lee (Korea Aerospace University, Korea) |

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10:30-10:50

A Linearly Polarized Reflectarray Suppressing Beam Shift

Hiroki Yamada, Kotaro Sakagawa, Hiroyuki Deguchi, and Mikio Tsuji
Doshisha University, Japan

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10:50-11:10

Reflectarray Antenna Constructed by Arranging Double Omega-Shaped Resonant Elements for Orthogonal-Polarization Conversion

Teruki Murayama, Shusuke Sasaki, Daichi Higashi, Hiroyuki Deguchi, and Mikio Tsuji
Doshisha University, Japan

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11:10-11:30

Comparison of Simulated Performance of Faceted & Flat Reflectarray Antennas

Chia Tse Tong^{1,2}, Chong En Fui Raelene³, and Ker Chin Tian³
¹*National University of Singapore, Singapore*, ²*DSO National Laboratories, Singapore*,
³*NUS High School of Maths & Science, Singapore*

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11:30-11:50

Analysis of Wideband Reflectarrays Based on Different Progressive Phase Centers

M. Hashim Dahri¹, M. H. Jamaluddin¹, M. Inam¹, R. Selvaraju¹, N. H. Shahadan², and M. R. Kamarudin³
¹*Universiti Teknologi Malaysia, Malaysia*, ²*Politeknik Ibrahim Sultan, Malaysia*, ³*Cranfield University, UK*

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11:50-12:10

Design of Dielectric Lens Antenna for 5G Mobile Base Station

Farizah Ansarudin^{1,2}, Tharek Abd Rahman¹, and Yoshihide Yamada¹
¹*Universiti Teknologi Malaysia, Malaysia*, ²*Universiti Kebangsaan Malaysia, Malaysia*

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12:10-12:30

The Water Drop Lens: A Modulated Geodesic Lens Antenna Based on Parallel Curves

Nelson J. G. Fonseca¹, Qingbi Liao², and Oscar Quevedo-Teruel²
¹*European Space Agency, The Netherlands*, ²*Royal Institute of Technology, Sweden*