



URS I GASS

2021

28 AUGUST – 4 SEPTEMBER

SAPIENZA FACULTY OF ENGINEERING, ROME, ITALY



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PROGRAM

SCIENTIFIC PROGRAM

SESSION B15

BUILDING RM0031 - ROOM 7

Forward scattering and propagation (Part 2)

Session Conveners: C. Ponti, A. Randazzo

Th-B15-PM2-1 Modeling and Realization of a 24-GHz FMCW Radar for Accurate Target Distance Identification
Pisa, Stefano; Mih, Gabriel Adrian; Piuze, Emanuele
Sapienza University of Rome (Italy)

Th-B15-PM2-2 Bessel beam scattering by a dielectric cylinder
Pavone, Santi Conetto; Sorbello, Gino; Di donato, Loreto
Department of Electrical, Electronics, and Computer Engineering (DIEE), University of Catania (Italy)

Th-B15-PM2-3 (Invited) Object reconstruction via radar detection behind walls
Wood, Aihua
AFIT (USA)

SESSION B20

BUILDING RM0031 - ROOM 8

High-frequency and hybrid methods (Part 2)

Session Conveners: P. Pathak, G. Manara, L. Klinkenbusch

Th-B20-PM2-1 Higher order scattering contributions with surface integral representations for radome analysis
Andersson, Michael
Saab Dynamics AB (Sweden)

Th-B20-PM2-2 (Invited) Efficient Computation of Fock Integrals
Baktur, Reyhan ¹; Pearson, L. Wilson ²
¹ *Utah State University (USA)*; ² *Clemson University (USA)*

SESSION B01

BUILDING RM0031 - ROOM 9

Antenna theory, design, and measurement (Part 10)

Session Conveners: J. Volakis; D. Guha, A. Michel

Th-B01-PM2-1 (Invited) A Review on Orbital Angular Momentum (OAM) Beams: Fundamental Concepts, Potential Applications, and Perspectives
Rahmat-Samii, Yahia ¹; Papathanasopoulos, Anastasios ²
¹ *University of California, Los Angeles (USA)*; ² *University of California Los Angeles (USA)*

Th-B01-PM2-2 Self-Supporting Circularly Polarized Backfire Helix Feed Antenna with Reflector and Director for Deep Dish Reflector Antennas in the L-Band

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Lang, Hans-Dieter ¹; Mathis, Heinz ¹; Flepp, Simon ²

¹ *OST University of Applied Sciences Eastern Switzerland (Switzerland)*; ² *Swisspho (Switzerland)*

Th-B01-PM2-3 Beam Synthesis of a C-Band Circularly Polarized Dual-Reflector Antenna using a Reconfigurable Subreflector
Mehri Dehnavi, Marzieh; Laurin, Jean-Jaques
Polytechnique Montréal (Canada)

SESSION D15

BUILDING RM0031 - ROOM 5

Frequency Combs

Session Chairs: H. Asghari, N. Shinohara

Session Conveners: H. Asghari, N. Shinohara

Th-D15-PM2-1 Ultimate quantum noise limit of frequency comb measurements: can we read out optical clocks with 10⁻²⁰ precision?
Steinmeyer, Günter
Max-Born-Institut (Germany)

Th-D15-PM2-2 (Invited) Optical frequency transfer via fiber optical frequency combs at the 10⁻²¹ level
Benkler, Erik
Physikalisch-Technische Bundesanstalt (Germany)

Th-D15-PM2-3 (Invited) Frequency combs enabled by Bloch gain in quantum cascade lasers
Schwarz, Benedikt; Opacak, Nikola; Dal cin, Sandro; Hillbrand, Johannes
TU Wien (Austria)

SESSION D06

BUILDING RM0031 - ROOM 6

Antennas & electronics for wearable, epidermal & implantable devices (Part 3)

Session Chairs: G. Marrocco, L. Tarricone

Session Conveners: G. Marrocco, L. Tarricone

Th-D06-PM2-1 Multiscale Porous Elastomer Substrate Enabled Harmonic Face Mask for Wireless Cough Monitoring
Zhu, Liang; Chen, Pai-Yen
University of Illinois at Chicago (USA)

Th-D06-PM2-2 (Invited) Design and Verification of IR-UWB Localisation Sensor Node with Cavity-Backed Textile Antenna
Verhaever, Jo ¹; Van Baelen, Dries ²; Van den Brande, Quinten ²; Lemey, Sam ¹;