
Session Title [OD2] Multi-physics and Coupled Problems

Date and Time June 22 (Thursday) / 16:20-18:00

Place Grand Ballroom (2F, 201)

Session Chair To be Announced

OD2-1

16:20-16:40

A 2-D Finite-element Model for Electro-thermal Transients in Accelerator Magnets

Bortot, Lorenzo (1); Auchmann, Bernhard (1); Maciejewski, Michał (1,2); Prioli, Marco (1); Schöps, Sebastian (3); Cortes Garcia, Idoia (3); Verweij, Arjan Peter (1); Navarro, Alejandro Manuel Fernandez (1)
 1: CERN, Geneva, Switzerland; 2: Łódź University of Technology, Łódź, Poland; 3: Technische Universität Darmstadt, Darmstadt, Germany

OD2-2

16:40-17:00

An Iterative Flux Tracing Method Without Deutsch Assumption for Ion-Flow Field of AC/DC Hybrid Transmission Lines

Qiao, Ji; Zhang, Pengfei; Zou, Jun; Yuan, Jiansheng
 State Key Laboratory of Power System, Department of Electrical Engineering, Tsinghua University, Beijing, China, People's Republic of

OD2-3

17:00-17:20

Numerical Method for the Ferromagnetic Granules Utilizing DEM and MoM

Mitsufuji, Kenta; Nambu, Masahito; Hirata, Katsuhiro; Miyasaka, Fumikazu
 Osaka University, Japan

OD2-4

17:20-17:40

Characterization of Electrical Conductivity of Anisotropic CFRP Materials by means of Induction Thermography Technique

Bui, Huu Kien (1); Senghor, F. D. (1); Wasselynck, G. (1); Trichet, D. (1); Fouladgar, J. (1); Lee, K. (2); Berthiau, G. (1)
 1: IREENA, France; 2: Department of Physics, Sogang University, Seoul 121-742, Korea

OD2-5

17:40-18:00

Finite Element Analysis for Surface Discharge Due to Interfacial Polarization at the Oil-Nanocomposite Interface

Choi, Jin-Hyun (1); Kim, Su-Hun (1); Jang, Kyunghoon (2); Hikita, Masayuki (2); Lee, Se-Hee (1)
 1: Department of Electrical Engineering, Kyungpook National University, Daegu 41566, Republic of Korea; 2: Kyushu Institute of Technology Fukuoka, Japan