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**Session Title** [OB1] Mathematical Modelling & Formulations

**Date and Time** June 20 (Tuesday) / 09:00-10:40

**Place** Grand Ballroom (2F, 201)

**Session Chair** To be Announced

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**OB1-1** **09:00-09:20**

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**Equilibrated based A Posteriori Error Estimators for A and  $\Omega$  Potential Formulations in Magnetostatic Problems**

Tang, Zuqi  
GeePs – Génie Electrique et Electronique de Paris, France

**OB1-2** **09:20-09:40**

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**Solving nonlinear circuits with pulsed excitation by multirate partial differential equations**

Pels, Andreas (1,2); Gyselinck, Johan (3); Sabariego, Ruth V. (4); Schöps, Sebastian (1,2)  
1: Graduate School of Computational Engineering, Technische Universität Darmstadt, Germany; 2: Institut für Theorie Elektromagnetischer Felder, Technische Universität Darmstadt, Germany; 3: BEAMS Department, Université libre de Bruxelles, Belgium; 4: Depa

**OB1-3** **09:40-10:00**

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**A full-wave integral equation method including accurate wide-frequency-band wire models for WPT coils**

Bilicz, Sandor (1); Badics, Zsolt (2); Gyimothy, Szabolcs (1); Pavo, Jozsef (1)  
1: Budapest University of Technology and Economics, Hungary; 2: Tensor Research, LLC, Andover, MA, USA

**OB1-4** **10:00-10:20**

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**The Study of VFTO Distribution in the IOCT Insulation System Considering the Moisture and Frequency Dependence of Materials**

BAI, Baodong; WANG, Qingpeng; CHEN, Dezhi; HE, Xiaoyu  
Shenyang University of Technology, China, People's Republic of

**OB1-5** **10:20-10:40**

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**Study of Carbon-Based Transistors with Semi-Analytic and Full-Band Models**

Zheng, Yi (1); Zanella, Fernando (2); Valerio, Guido (1); Ren, Zhuoxiang (1); Dartora, César Augusto (2)  
1: Université Pierre et Marie Curie, France; 2: Federal University of Paraná, Brazil