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WORKSHOP PROGRAM

Thursday, June 22nd

Session on Quality Measurement Techniques for Critical Software Systems

Room: Centro Culturale S. Gaetano, "Galileo Galilei" Hall

Chairs: Massimo Tipaldi, OHB System AG/OHB Italia SpA, Italy

Bernhard Bruenjes, OHB System AG, Germany

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Maurizio Zoppi, Intelligentia S.r.l., Benevento, Italy

Antonio Di Cerbo, OHB System AG, Bremen, Germany

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Francesco Mercaldo, National Research Council of Italy (CNR), Pisa, Italy

Vittoria Nardone, University of Sannio, Benevento, Italy

Antonella Santone, University of Sannio, Benevento, Italy

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Room: Centro Culturale S. Gaetano, "Giuseppe Colombo" Hall

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Giorgio Guglieri, Politecnico of Torino, Italy

Michele Vespe, European Commission, Joint Research Centre (JRC)

Ciro Gioia, European Commission, Joint Research Centre (JRC)

Francesco Sermi, European Commission, Joint Research Centre (JRC)

Vladimir Kyovtorov, European Commission, Joint Research Centre (JRC)

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C. Clemente, University of Strathclyde, Glasgow, United Kingdom

Silvia Liberata Ullo, Università degli Studi del Sannio, Benevento, Italy

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Room: Centro Culturale S. Gaetano, Auditorium

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Dominique Alison, Univ. Paris Sud, Observatoire de Paris, France
Amine Rhouni, Univ. Paris Sud, Observatoire de Paris, France

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Room: Centro Culturale S. Gaetano, "Galileo Galilei" Hall

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Eduardo Sebastián, Centro de Astrobiología (INTA-CSIC) Torrejón de Ardoz, Spain
Andrés Bravo, Centro de Astrobiología (INTA-CSIC) Torrejón de Ardoz, Spain
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Miguel Ramos, Universidad de Alcalá, Madrid, Spain
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Ernst Kessler, Institute of Photonic Technology Jena, Germany
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David González, Computadoras, Redes e Ingeniería S.A.U (CRISA) Tres Cantos, Spain
Jose Moreno, Computadoras, Redes e Ingeniería S.A.U (CRISA) Tres Cantos, Spain

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Diego Scaccabarozzi, Politecnico di Milano, Italy
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Session on Relativistic Metrology

Room: Centro Culturale S. Gaetano, "Giuseppe Colombo" Hall

Chairs: *Roberto Peron, Istituto di Astrofisica e Planetologia Spaziali, Italy*
Enrico Lorenzini, University of Padova, Italy

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Josep Colomé Ferrer, ICE – Institut de Ciències de l'Espai, Barcelon, Spain
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Session on Measurement and Instrumentation for Aerospace Application - PART 2

Room: Centro Culturale S. Gaetano, Auditorium

Chairs: *Stefano Debei, University of Padova, CISAS "G. Colombo", Italy*

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G. Gallina, CISAS, Padova, Italy
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Giancarlo Rufino, University of Naples "FEDERICO II", Italy
Michele Grassi, University of Naples "FEDERICO II", Italy

General Session - PART 1

Room: Centro Culturale S. Gaetano, "Galileo Galilei" Hall

Chairs: Luca De Vito, *University of Sannio, Italy*

Gianluca Mazzilli, *University of Sannio, Italy*

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Xiyuan Chen, *Southeast University, China*

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Chairs: Marco Laracca, *University of Cassino and Southern Lazio, Italy*

Helena G. Ramos, *University of Lisbon, Portugal*

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Roman Bottger, Institute of Ion Beam Physics and Materials Research, Germany

Rene Hubner, Institute of Ion Beam Physics and Materials Research, Germany

Enrico Napolitani, University of Padova, Italy

Session on Measurement and Instrumentation for Aerospace Application - PART 3

Room: Centro Culturale S. Gaetano, Auditorium

Chairs: *Stefano Debei, University of Padova, CISAS "G. Colombo", Italy*

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Diego Scaccabarozzi, Politecnico di Milano, Lecco, Italy

Bortolino Saggin, Politecnico di Milano, Lecco, Italy

Christian Pagliara, Politecnico di Milano, Lecco, Italy

Marianna Magni, Politecnico di Milano, Lecco, Italy

Marco Tarabini, Politecnico di Milano, Lecco, Italy

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Fausto Cortecchia, INAF - Osservatorio Astronomico di Capodimonte, Naples, Italy

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Ilya Kuznetsov, IKI RAN Space Research Institute of the Russian Academy of Sciences, Russia

Andrew Lyash, IKI RAN Space Research Institute of the Russian Academy of Sciences, Russia

Alexander Zakharov, IKI RAN Space Research Institute of the Russian Academy of Sciences, Russia

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Sun Wenjun, Lanzhou Institute of Physics, Lanzhou, China

Wang Yongjun, Lanzhou Institute of Physics, Lanzhou, China

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C. Bettanini, CISAS - Università degli Studi di Padova, Padova, Italy

F. Esposito, INAF - Osservatorio Astronomico di Capodimonte, Italy

S. Debei, CISAS - Università degli Studi di Padova, Padova, Italy

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G. Colombatti, CISAS - Università degli Studi di Padova, Padova, Italy

A. Aboudan, CISAS - Università degli Studi di Padova, Padova, Italy

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Mattia Mazzucato, CISAS G. Colombo, University of Padova, Italy

Guido Pastore, CISAS G. Colombo, University of Padova, Italy

Marco Pertile, CISAS G. Colombo, University of Padova, Italy

Enrico Lorenzini, CISAS G. Colombo, University of Padova, Italy

Friday, June 23rd

Session on Instruments and Technology for Exploration

Room: Centro Culturale S. Gaetano, "Galileo Galilei" Hall

Chairs: Marcello Coradini, ASI/JPL

Enrico Flamini, ASI - Italian Space Agency, Italy

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G. Colombatti, Università degli Studi di Padova, CISAS "Giuseppe Colombo", Italy

C. Bettanini, Università degli Studi di Padova, CISAS "Giuseppe Colombo", Italy

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B. Van Hove, Royal Observatory of Belgium (ROB), Brussels, Belgium

N. Gerbal, Royal Observatory of Belgium (ROB), Brussels, Belgium

S. Asmar, Jet Propulsion Laboratory, California Institute of Technology - NASA, USA

S. Lewis, School of Physical Sciences, The Open University, UK

F. Forget, Laboratoire de Météorologie Dynamique, Paris, France

Session on Complex Systems Operational Availability: Measurements, Methodologies and Requirements

Room: Centro Culturale S. Gaetano, "Giuseppe Colombo" Hall

Chairs: Fabio Leccese, University of "Roma Tre", Department of Science, Italy

Luca Maiolo, IMM - CNR, Italy

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Fabio Leccese, Università degli Studi "Roma Tre", Italy

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Francesco Maita, IMM - Istituto per la Microelettronica e i Microsistemi, CNR- Consiglio Nazionale delle Ricerche

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Andrea Calogero, Università degli Studi "Roma Tre", Italy

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Ruggero De Francesco, SeTeL s.r.l., Rome, Italy

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Simona Nacamulli, Unoauno Srl, Roma, Italy
Ruggero De Francesco, SeTeL s.r.l, Rome, Italy
Enrico Petritoli, Università degli Studi "Roma Tre", Roma, Italy
-

Session on Terrestrial and In-Flight Verification of the GNC Systems for Satellites and Aerospace Vehicles

Room: Centro Culturale S. Gaetano, Auditorium

Chairs: Yevgeny Somov, Samara State Technical University, Russia
Houria Siguerdidjane, Centrale Supélec University, France
Klaus Schilling, Universität Würzburg, Germany
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Sergey A. Kochetkov, V.A. Trapeznikov Institute of Control Sciences RAS Moscow, Russia
Svetlana A. Krasnova, V.A. Trapeznikov Institute of Control Sciences RAS Moscow, Russia
Anton V. Utkin, V.A. Trapeznikov Institute of Control Sciences RAS Moscow, Russia
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POSTER SESSION

Room: Centro Culturale S. Gaetano, Spazio 35

Chairs: Gregorio Andria, Politecnico di Bari, Italy
Anna M. L. Lanzolla, Politecnico di Bari, Italy

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Cedric Legendre, OHB System AG, Bremen, Germany
Massimo Ferraguto, Space Systems Finland
Massimo Tipaldi, OHB Italia SpA; University of Sannio, Italy
Andreas Wortmann, OHB System AG, Bremen, Germany
Christian Moellmann, OHB System AG, Bremen, Germany
Roskamp, OHB System AG, Bremen, Germany
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Giovanni Carapella, University of Salerno, Italy
Sandro Pace, University of Salerno, Italy
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Gaia Grimaldi, CNR-SPIN Salerno, Italy
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Antonio Angrisano, Giustino Fortunato University, Benevento, Italy
Mario Luca Bernardi, Giustino Fortunato University, Benevento, Italy
Graziano Gagliarde, TopView S.r.l., Caserta, Italy
Alberto Mennella, TopView S.r.l., Caserta, Italy
Marco Nisi, Sistematica S.p.a., Terni, Italy
Silvia Liberata Ullo, University of Sannio, Benevento, Italy
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Flavio Auteri, Leonardo Company S.p.A, Rome, Italy
Germano Reffo, WENZEL Italia S.r.L.
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Attilio Di Nisio, Polytechnic of Bari, Italy
Carlo Guarnieri Calò Carducci, Polytechnic of Bari, Italy
Anna M. L. Lanzolla, Polytechnic of Bari, Italy
Giuseppe Mattencini, Polytechnic of Bari, Italy

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Alexander Nebylov, State University of Aerospace Instrumentation, Russia
Alexander Knyazhsky, State University of Aerospace Instrumentation, Russia

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Jan Skaloud, Ecole Polytechnique Fédérale de Lausanne, Switzerland
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James Balamuta, University of Illinois at Urbana-Champaign, USA
Stéphane Guerrier, University of Illinois at Urbana-Champaign, USA

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Susanna Laurenzi, Sapienza University of Rome, Italy

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Enrico Ferrentino, ALTEC S.p.A.
Alfredo Giovanni Villa, ALTEC S.p.A.
Ivano Musso, ALTEC S.p.A.
Marco Barrera, ALTEC S.p.A.

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Mattia Pezzato, University of Padua, Italy
Alessia Gloder, University of Padua, Italy
Riccardo Mantellato, University of Padua, Italy
Alessandro Francesconi, University of Padua, Italy
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Domenico Mari, Istituto Nazionale di Ricerca Metrologica, INRIM, Italy

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Sebastiano Chiodini, CISAS "G.Colombo", University of Padova, Italy
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Luca Pompetti, DPM Elettronica S.r.l, Italy
Mauro Pompetti, DPM Elettronica S.r.l, Italy

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Marco Cagnetti, Università degli Studi "Roma Tre"
Sabino Giarnetti, Università degli Studi "Roma Tre"
Simonetta Tuti, Università degli Studi "Roma Tre"
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Eduardo De Francesco, SeTeL s.r.l., Italy
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S. Merlo, Università di Pisa, Italy
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Rodrigo Scarpel, Technological Institute of Aeronautics, Brazil
Fernando T. M. Abrahao, Technological Institute of Aeronautics, Brazil
Diego Galar, Lulea University of Technology, Sweden & TECNALIA, Spain
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Vladimir Kyovtorov, European Commission, Joint Research Centre
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Zdzislaw Rochala, Military University of Technology, Poland
Konrad Wojtowicz, Military University of Technology, Poland
Piotr Wieczorek, Military University of Technology, Poland

Session on Smart Materials and Structures for Actuators and Sensors in Aerospace and Space

Room: Centro Culturale S. Gaetano, "Galileo Galilei" Hall

Chairs: Bortolino Saggin, Politecnico di Milano, Italy

Diego Scaccabarozzi, Politecnico di Milano, Italy

- 434 A Preliminary Study on Self Sensing Composite Structures with Carbon Nanotubes**

Diego Scaccabarozzi, Politecnico di Milano, Italy

Simone Cinquemani, Politecnico di Milano, Italy

Claudio Sbarufatti, Politecnico di Milano, Italy

Alberto Jiménez-Suárez, Universidad Rey Juan, Spain

Maria Sanchez, Universidad Rey Juan, Spain

Alejandro Urena, Universidad Rey Juan, Spain

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Bortolino Saggin, Politecnico di Milano, Polo Territoriale di Lecco
Arash Valiesfahani, Politecnico di Milano, Polo Territoriale di Lecco
Carlo Alberto Biffi, CNR, National Research Council, Italy
Ausonio Tuiissi, CNR, National Research Council, Italy
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Diego Scaccabarozzi, Politecnico di Milano, Italy
Marianna Magni, Politecnico di Milano, Italy
Marco Tarabini, Politecnico di Milano, Italy
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General Session - PART2

Room: Centro Culturale S. Gaetano, "Giuseppe Colombo" Hall

Chairs: *Yevgeny Somov, Samara State Technical University, Samara Scientific Centre, Russian Academy of Sciences, Russia*
Alexander Knyazhsky, State University of Aerospace Instrumentation, Russia

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Liu Jiaqi, National Key Laboratory of Science and Technology on Test Physics and Numerical Mathematics, China
Gao Lu, National Key Laboratory of Science and Technology on Test Physics and Numerical Mathematics, China
Li Zhifeng, National Key Laboratory of Science and Technology on Test Physics and Numerical Mathematics, China
Zhang Li, National Key Laboratory of Science and Technology on Test Physics and Numerical Mathematics, China
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Edoardo Mancini, University of Pisa, Italy
Federico Celi, University of Pisa, Italy
Lorenzo Quadrelli, University of Pisa, Italy
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Pietro Guardati, University of Pisa, Italy
Federico Baronti, University of Pisa, Italy
Luca Fanucci, University of Pisa, Italy
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Mattia Mazzucato, CISAS "Giuseppe Colombo", University of Padova, Italy
Sergio Tronco, CISAS "Giuseppe Colombo", University of Padova, Italy
Marco Pertile, CISAS "Giuseppe Colombo", University of Padova, Italy
Enrico Lorenzini, CISAS "Giuseppe Colombo", University of Padova, Italy

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Sergey Butyrin, Samara State Technical University, Samara Scientific Centre, Russian Academy of Sciences, Russia
Sergey Somov, Samara State Technical University, Samara Scientific Centre, Russian Academy of Sciences, Russia
Tatyana Somova, Samara State Technical University, Russia
-

Session on Measurement for Improving Quality, Reliability And Safety in Aerospace Applications

Room: Centro Culturale S. Gaetano, Auditorium

Chairs: *Marcantonio Catelani, University of Florence, Italy*

Lorenzo Ciani, University of Florence, Italy

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Massimo Violante, Politecnico di Torino, Italy
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Robert A. Albright, 88- Inch Cyclotron, California
Brien F. Ninemire, 88- Inch Cyclotron, California
Michael B. Johnson, 88- Inch Cyclotron, California
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M. Harasty, University of California, USA
E. F. Matthews, University of California, USA
L. A. Bernstein, University of California, USA
Adam Bushmaker, Physical Sciences Laboratories, USA
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Roberto Tomassini, University of Perugia, Italy
Gianluca Rossi, University of Perugia, Italy
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Hubert Zangl, Alpen-Adria Universität, Austria
Michael Moser, eologix sensor technology gmbh, Austria
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G. Di Rito, Università di Pisa, Italy
F. Schettini, Università di Pisa, Italy
R. Galatolo, Università di Pisa, Italy

Session on Interferometric and Optical Systems for Accelerometers and Attitude Sensors

Room: Centro Culturale S. Gaetano, "Galileo Galilei" Hall

Chairs: Carlo Ferrero, INRIM, Past Chair of IMEKO TC8 on TRACEABILITY

Marco Pisani, INRIM, Italy

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Carlo Ferrero, INRIM Torino, Italy

518 Infrared structured light generation by optical MEMS and application to depth perception

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Francesca Carpignano, University of Pavia, Italy

Domenico Riccardi, University of Pavia, Italy

Giulia Rigamonti, University of Pavia, Italy

Michele Norgia, Politecnico di Milano, Italy

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Piero Malcovati, Università di Pavia, Italy

Alexey Pniov, Bauman Moscow State Technical University, Russia

Andrey Zhirnov, Bauman Moscow State Technical University, Russia

Evgeniy Nesterov, Bauman Moscow State Technical University, Russia

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Michele Norgia, Politecnico di Milano, Italy

Alessandro Pesatori, Politecnico di Milano, Italy

Cesare Svelto, Politecnico di Milano, Italy

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Gian Marco Revel, Università Politecnica delle Marche, Italy

Giuseppe Pandarese, Università Politecnica delle Marche, Italy

Gloria Allevi, University of Padova, Italy

Session on Measurement and Instrumentation for Aerospace Application - PART 4

Room: Centro Culturale S. Gaetano, "Giuseppe Colombo" Hall

Chairs: Stefano Debei, University of Padova, CISAS "G. Colombo", Italy

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Giacomo Colombatti, CISAS "Giuseppe Colombo", Università degli Studi di Padova

Carlo Bettanini, CISAS "Giuseppe Colombo", Università degli Studi di Padova

Alessio Aboudan, CISAS "Giuseppe Colombo", Università degli Studi di Padova

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Yongjun Cheng, Lanzhou Institute of Physics, Lanzhou, China

Wenjun Sun, Lanzhou Institute of Physics, Lanzhou, China

Yongjun Wang, Lanzhou Institute of Physics, Lanzhou, China

Yanwu Li, Lanzhou Institute of Physics, Lanzhou, China

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Francesco Branz, University of Padua, Italy

Alessandro Francesconi, University of Padua, Italy

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Guillaume Bonneric, SAE-ENSMA, France
Michele Ferlauto, Politecnico di Torino, Italy
Gaetano M. Di Cicca, Politecnico di Torino, Italy

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Room: Centro Culturale S. Gaetano, Auditorium

Chairs: Bartosz Brzozowski, Military University of Technology, Poland

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L. Toninello, University of Padua, Italy
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