13TH INTERNATIONAL CONFERENCE ON RELATIVISTIC EFFECTS IN HEAVY-ELEMENT CHEMISTRY AND PHYSICS



PROGRAM

From 26 September to 30 September 2022 BV Grand Hotel Assisi Assisi, Italy

Day 1 - Monday, S	eptember 2	26 th , 2022		
14:30 - 18:00	Registrat	Registration		
18:00 - 18:30	Opening	Opening Ceremony - incl. Historical talk "The road to Assisi" (Pekka Pyykkö)		
SESSION 01				
Session Chair: Pek	ka Pyykkö			
Extended lecture				
18:30 - 19:00	EL 1	<u>Victor V. Flambaum</u> <i>"Relativistic and QED effects in spectra and isotope shifts in superheavy atoms"</i> School of Physics, University of New South Wales, Sydney 2052, Australia. Helmholtz Institute Mainz, Johannes Gutenberg University, 55099 Mainz, Germany.		
Invited Talk				
19:00 – 19:30	IT 1.1	W. H. Eugen Schwarz "REHE - Revolution of the Periodic Table at the Bottom" Theoretical Chemistry Center, Tsinghua University, Beijing 100084 China. Physical and Theoretical Chemistry Laboratory, Faculty of Science and Engineering, University of Siegen, Siegen, 57068 Germany.		
19:30 - 21:00	Dinner			

Day 2 - Tuesday, September 27th, 2022 SESSION 02 Session Chair: Valeria Pershina Extended lecture 09:00 - 09:30 EL 2 Yuri T. Oganessian "Mass Limits of Nuclei and Elements" Flerov Laboratory of Nuclear Reactions, Joint Institute for Nuclear Research (JINR), Dubna, Moscow region, Russia. Invited Talks 99:30 - 10:00 IT 2.1 Patrick Steinegger "Prospects in experimental superheavy element chemistry" Laboratory of Radiochemistry, Nuclear Energy and Safety Division, Pe Scherrer Institute, Forschungsstrasse 111, Villigen PSI, CH-5232, Switzerland. Laboratory of Inorganic Chemistry, Department of Chemistry and App Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland. 10:00 - 10:30 IT 2.2 Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shap Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 - 11:00 Coffee Break Session Chair: Peter Schwerdtfeger Invited Talks 11:00 - 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany. Helmholtz-Institut For Particle Physics and Gravity, Univers				
Session Chair: Valeria Pershina Extended lecture 09:00 - 09:30 EL 2 Yuri T. Oganessian "Mass Limits of Nuclei and Elements" Flerov Laboratory of Nuclear Reactions, Joint Institute for Nuclear Research (JINR), Dubna, Moscow region, Russia. Invited Talks 09:30 - 10:00 IT 2.1 Patrick Steinegger "Prospects in experimental superheavy element chemistry" Laboratory of Radiochemistry, Nuclear Energy and Safety Division, Pa Scherrer Institute, Forschungsstrasse 111, Villigen PSI, CH-5232, Switzerland. Laboratory of Inorganic Chemistry, Department of Chemistry and Api Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland. 10:00 - 10:30 IT 2.2 Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shap Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 - 11:00 Coffee Break SESSION 03 Session Chair: Peter SchwerdtFeger Invited Talks I1:00 - 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany "High accuracy calculations for heavy elements in support of experimental research"				
Extended lecture 09:00 - 09:30 EL 2 Yuri T. Oganessian "Mass Limits of Nuclei and Elements" Flerov Laboratory of Nuclear Reactions, Joint Institute for Nuclear Research (JINR), Dubna, Moscow region, Russia. Invited Talks 9:30 - 10:00 IT 2.1 Patrick Steinegger "Prospects in experimental superheavy element chemistry" Laboratory of Radiochemistry, Nuclear Energy and Safety Division, Pe Scherrer Institute, Forschungsstrasse 111, Villigen PSI, CH-5232, Switzerland. Laboratory of Inorganic Chemistry, Department of Chemistry and App Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland. 10:00 - 10:30 IT 2.2 Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shaj Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 - 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strasmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany "High accuracy calculations for heavy elements in support of experimental research"				
09:00 - 09:30 EL 2 Yuri T. Oganessian "Mass Limits of Nuclei and Elements" Flerov Laboratory of Nuclear Reactions, Joint Institute for Nuclear Research (JINR), Dubna, Moscow region, Russia. Invited Talks 09:30 - 10:00 IT 2.1 Patrick Steinegger "Prospects in experimental superheavy element chemistry" Laboratory of Radiochemistry, Nuclear Energy and Safety Division, Pa Scherrer Institute, Forschungsstrasse 111, Villigen PSI, CH-5232, Switzerland. Laboratory of Inorganic Chemistry, Department of Chemistry and App Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland. 10:00 - 10:30 IT 2.2 Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shaj Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 - 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strasmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 - 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
"Mass Limits of Nuclei and Elements" Flerov Laboratory of Nuclear Reactions, Joint Institute for Nuclear Research (JINR), Dubna, Moscow region, Russia. Invited Talks 09:30 - 10:00 IT 2.1 Patrick Steinegger "Prospects in experimental superheavy element chemistry" Laboratory of Radiochemistry, Nuclear Energy and Safety Division, Pas Scherrer Institute, Forschungsstrasse 111, Villigen PSI, CH-5232, Switzerland. Laboratory of Inorganic Chemistry, Department of Chemistry and App Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland. 10:00 - 10:30 IT 2.2 Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Sha Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 - 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks 11:00 - 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany. "High accuracy calculations for heavy elements in support of experimental research"				
Flerov Laboratory of Nuclear Reactions, Joint Institute for Nuclear Research (JINR), Dubna, Moscow region, Russia. Invited Talks 09:30 – 10:00 IT 2.1 Patrick Steinegger "Prospects in experimental superheavy element chemistry" Laboratory of Radiochemistry, Nuclear Energy and Safety Division, Patcher Institute, Forschungsstrasse 111, Villigen PSI, CH-5232, Switzerland. Laboratory of Inorganic Chemistry, Department of Chemistry and App Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland. Laboratory of Inorganic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 – 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany. "High accuracy calculations for heavy elements in support of experimental research"				
Research (JINR), Dubna, Moscow region, Russia.Invited TalksPatrick Steinegger "Prospects in experimental superheavy element chemistry" Laboratory of Radiochemistry, Nuclear Energy and Safety Division, Pa Scherrer Institute, Forschungsstrasse 111, Villigen PSI, CH-5232, Switzerland. Laboratory of Inorganic Chemistry, Department of Chemistry and App Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland.10:00 – 10:30IT 2.2Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shap Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States.10:30 – 11:00Coffee BreakSESSION 03Session Chair: Peter SchwerdtFeger Invited TalksMustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany. "Helgh accuracy calculations for heavy elements in support of experimental research"				
Invited Talks Patrick Steinegger 09:30 – 10:00 IT 2.1 Patrick Steinegger "Prospects in experimental superheavy element chemistry" Laboratory of Radiochemistry, Nuclear Energy and Safety Division, Pacscherrer Institute, Forschungsstrasse 111, Villigen PSI, CH-5232, Switzerland. Laboratory of Inorganic Chemistry, Department of Chemistry and Appeloisciences, ETH Zürich, Zürich, CH-8093, Switzerland. 10:00 – 10:30 IT 2.2 Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shap Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 – 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz-Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany. "High accuracy calculations for heavy elements in support of experimental research"				
09:30 - 10:00 IT 2.1 Patrick Steinegger "Prospects in experimental superheavy element chemistry" Laboratory of Radiochemistry, Nuclear Energy and Safety Division, Pa Scherrer Institute, Forschungsstrasse 111, Villigen PSI, CH-5232, Switzerland. Laboratory of Inorganic Chemistry, Department of Chemistry and App Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland. 10:00 - 10:30 IT 2.2 Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shap Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 - 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 - 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
 "Prospects in experimental superheavy element chemistry" Laboratory of Radiochemistry, Nuclear Energy and Safety Division, Pac Scherrer Institute, Forschungsstrasse 111, Villigen PSI, CH-5232, Switzerland. Laboratory of Inorganic Chemistry, Department of Chemistry and App Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland. 10:00 – 10:30 IT 2.2 Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shap Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 – 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research" 				
Laboratory of Radiochemistry, Nuclear Energy and Safety Division, Pa Scherrer Institute, Forschungsstrasse 111, Villigen PSI, CH-5232, Switzerland. Laboratory of Inorganic Chemistry, Department of Chemistry and App Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland. 10:00 – 10:30 IT 2.2 Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shap Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 – 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
Scherrer Institute, Forschungsstrasse 111, Villigen PSI, CH-5232, Switzerland. Laboratory of Inorganic Chemistry, Department of Chemistry and App Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland. 10:00 – 10:30 IT 2.2 Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shaj Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 – 11:00 Coffee Break SESSION 03 Session Chair: Peter SchwerdtFeger Invited Talks IT 2.3 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz-Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
Switzerland. Laboratory of Inorganic Chemistry, Department of Chemistry and App Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland. 10:00 – 10:30 IT 2.2 Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shaj Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 – 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks IT 2.3 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz-Strasmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"	lied			
Laboratory of Inorganic Chemistry, Department of Chemistry and App Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland. 10:00 – 10:30 IT 2.2 Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shap Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 – 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"	lied			
Biosciences, ETH Zürich, Zürich, CH-8093, Switzerland. 10:00 – 10:30 IT 2.2 Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shap Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 – 11:00 Coffee Break SESSION 03 Session Chair: Peter SchwerdtFeger Invited Talks Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
10:00 – 10:30IT 2.2Jaideep Taggart Singh "Towards a Search for Time-Reversal Violation Using Pear-Shap Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States.10:30 – 11:00Coffee BreakSESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks11:00 – 11:30IT 2.3Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany11:30 – 12:00IT 2.4Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
"Towards a Search for Time-Reversal Violation Using Pear-Shap Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 – 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks IT 2.3 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
Nuclei Implanted in Cryogenic Solids" Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 – 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks IT 2.3 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"	bod			
Facility for Rare Isotope Beams, Michigan State University, East Lansi 48823, United States. 10:30 – 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks IT 2.3 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz-Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"	eu			
48823, United States. 10:30 – 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz-Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany. 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"	ησ			
10:30 – 11:00 Coffee Break SESSION 03 Session Chair: Peter Schwerdtfeger Invited Talks IT 2.3 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz-Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"	15,			
Session Chair: Peter SchwerdtFeger Invited Talks Mustapha Laatiaoui 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz-Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
Session Chair: Peter SchwerdtFeger Invited Talks Mustapha Laatiaoui 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz-Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
Invited Talks 11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
11:00 – 11:30 IT 2.3 Mustapha Laatiaoui "Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz-Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
"Optical Spectroscopy of the Heaviest Elements" Department of Chemistry, Johannes Gutenberg University, Fritz- Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
Department of Chemistry, Johannes Gutenberg University, Fritz-Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
Strassmann Weg 2, 55128 Mainz, Germany. Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
Helmholtz-Institut Mainz, Staudingerweg 18, 55128 Mainz, Germany 11:30 – 12:00 IT 2.4 Anastasia Borschevsky "High accuracy calculations for heavy elements in support of experimental research"				
"High accuracy calculations for heavy elements in support of experimental research"				
experimental research"				
experimental research"				
	ty of			
Groningen, Groningen, 9747AG, The Netherlands.				
12:00 – 12:30 IT 2.5 <u>Valeria Pershina</u>				
"Predictions of Properties and Experimental Behaviour of				
Superheavy Elements"				
GSI Helmholtzzentrum für Schwerionenforschung GmbH, 64291				
Darmstadt, Germany.				
12:30 – 13:30 Lunch				
13:30 – 14:30 Free - Time				
SESSION 04				
Session Chair: Robert Berger				
Invited Talks				
14:30 – 15:00 IT 2.6 <u>Peter Schwerdtfeger</u>				
"Is flerovium behaving like a noble-gas element?"				
Centre for Theoretical Chemistry and Physics, The New Zealand Instit				
for Advanced Study, Massey University Auckland, Private Bag 102904	Jte			
0745 Auckland, New Zealand.				

15:00 - 15:30	IT 2.7	Ephraim Eliav
15.00 - 15.50	11 2.7	"Benchmark electronic structures calculations at the edge of
		Periodic Table"
		School of Chemistry, Tel Aviv University, 69978 Tel Aviv, Israel.
15:30 - 16:00	IT 2.8	Vladimir Shabaev
10.00 10.00	11 2.0	"QED with heavy ions: on the way to supercritical fields"
		Department of Physics, St. Petersburg State University, Oulianovskaya
		Street 1, Petrodvorets, 198504 St. Petersburg, Russia.
16:00 - 16:30	IT 2.9	Paul Indelicato
		"Relativistic effects, QED corrections and correlation in heavy and
		super-heavy elements total binding energies"
		Kastler Brossel Laboratory, Sorbonne University, CNRS, ENS-PSL Research
		University, Collège de France, 4 Place Jussieu, 75005 Paris, France.
16:30 - 17:00	Coffee B	reak
SESSION 05	actoria Dor	
Session Chair: Ar Invited Talks	iastasia bor	schevsky
17:00 – 17:30	IT 2.10	Trond Saue
17.00 - 17.50	11 2.10	"Does chemistry need more physics?"
		Laboratoire de Chimie et Physique Quantique, UMR 5626 CNRS —
		Université Toulouse III-Paul Sabatier, 118 Route de Narbonne, F-31062
		Toulouse, France.
17:30 - 18:00	IT 2.11	Edit Mátyus
		"Relativistic and non-adiabatic developments for molecular
		quantum theory"
		ELTE, Eötvös Loránd University, Institute of Chemistry, Pázmány Péter
19.00 19.20	IT 2.12	sétány 1/A, Budapest H-1117, Hungary.
18:00 - 18:30	11 2.12	<u>Krzysztof Pachucki</u> "QED theory of the nuclear magnetic shielding"
		Faculty of Physics, University of Warsaw, Pasteura 5, 02-093 Warsaw,
		Poland.
18:30 - 19:00	IT 2.13	Gustavo A. Aucar
		"Studying relativistic and QED effects on response properties with
		polarization propagators. Its application to NMR spectroscopic
		parameters"
		Natural and Exact Science Faculty, Northeastern University of Argentina,
		Av. Libertad 5460, W3404AAS Corrientes, Argentina.
		Institute for Modeling and Innovative Technology, IMIT (CONICET-UNNE), Av. Libertad 5460, W3404AAS Corrientes, Argentina.
19:00 - 19:30	IT 2.14	Robert Berger
		"Radium monofluoride and the violation of fundamental
		symmetries"
		Fachbereich Chemie, Philipps-University Marburg, Hans-Meerwein-Straße
		4, D-35032 Marburg, Germany.
19:30 - 21:00 21:00 - 23:00	Dinner	

Day 3 - Wednesd	ay, Se <u>pte</u> m	ber 28 th , 2022	
SESSION 06			
Session Chair: Ale	ceo Macchi	oni	
Extended lecture	1		
08:45 – 09:30	EL 3	<u>Stephen T. Liddle</u> <i>"Actinide-Ligand Multiple Bonding: Marrying Experiment and</i> <i>Theory to Quantify Covalency"</i> Department of Chemistry and Centre for Radiochemistry Research, The University of Manchester, Oxford Road, Manchester, M13 9PL, United Kingdom.	
Invited Talks			
09:30 - 10:00	IT 3.1	<u>Tonya Vitova</u> <i>"Bonding interactions of the actinide elements probed by high</i> <i>resolution X-ray spectroscopy"</i> Karlsruhe Institute of Technology (KIT), Institute for Nuclear Waste Disposal (INE), P.O. Box 3640, 76021, Karlsruhe, Germany.	
10:00 - 10:30	IT 3.2	Mauro Perfetti <i>"Magnetic anisotropy of heavy-elements molecular compounds: study and control"</i> Department of Chemistry Ugo Schiff and INSTM Research Unit, University of Florence, Via della Lastruccia 3, 50019, Sesto Fiorentino, Italy.	
10:30 - 11:00	Coffee B	ee Break	
SESSION 07			
Session Chair: Sto	ephen T. Lio	ddle	
Invited Talks			
11:00 – 11:30	IT 3.3	Paola Belanzoni "Intriguing features of the halogen bond revealed by spin-orbit coupling" Department of Chemistry, Biology and Biotechnology, University of Perugia, Italy, Via dell' Elce di Sotto, 8, Perugia, Italy. CNR Institute of Chemical Science and Technologies "Giulio Natta" (CNR-SCITEC), Perugia, 06123, Italy.	
11:30 – 12:00	IT 3.4	Minori Abe "Theoretical calculation of isotope fractionation in biotic uranium reduction" Department of Chemistry, Graduate School of Science, Hiroshima University, 1-3-2, Kagamiyama, Higashi-Hiroshima City, Hiroshima 739-8511, Japan. Department of Chemistry, Graduate School of Science, Tokyo Metropolitan University, 1-1 Minami-Osawa, Hachiojii-shi, Tokyo 192-0397, Japan.	
12:00 – 12:30	IT 3.5	Joel Creutzberg "Investigating relativistic effects for light-activated diazido Platinum complexes in aqueous environments" Division of Theoretical Chemistry, Lund University, SE-223 62 Lund, Sweden.	

12:30 - 13:30	Lunch	
SESSION 08		
Session Chair: Mir	nori Abe	
Invited Talks		
13:30 - 14:00	IT 3.6	Daniele Cesarini
		"The Leonardo Supercomputer at the Bologna Big Data Technopole
		and the CINECA's Evolution Roadmap"
		Department of SuperComputing Applications and Innovation, CINECA,
		40033 Casalecchio di Reno (BO), Italy.
14:00 - 14:30	IT 3.7	<u>Ivano Tavernelli</u>
		"Quantum computing applications in quantum chemistry"
		IBM Quantum, IBM Research Europe – Zurich, Säumerstrasse 4, CH-8803
		Rüschlikon, Switzerland.
14:30 - 15:00	IT 3.8	Lucas Visscher
		"Electron correlation challenges in relativistic quantum chemistry"
		Division of Theoretical Chemistry, Faculty of Sciences, Vrije Universiteit
		Amsterdam, De Boelelaan 1083, 1081 HV, Amsterdam, The Netherlands.
15:00 - 19:30	Trip to As	ssisi – Bus for Assisi departure at 15:15
19:30 - 21:00	Dinner	
21:00 - 23:00	Poster Se	ession – Even numbers

Day 4 - Thursday,	Septembe	r 29 th . 2022
SESSION 09	ocpternise	
Session Chair: Ker	neth Geor	ge Dvall
Extended lecture		<u> </u>
08:45 - 09:30	EL 4	Christoph Helmut Keitel
		"Extreme field calculations for Penning ion traps and EBITs and
		corresponding strong laser field scenarios"
		Max Planck Institute for Nuclear Physics (MPIK), Saupfercheckweg 1,
		D-69117 Heidelberg, Germany.
Invited Talks		
09:30 - 10:00	IT 4.1	Sang-Kil Son
		"Relativistic effects in x-ray multiphoton ionization dynamics"
		Center for Free-Electron Laser Science CFEL, Deutsches Elektronen-
		Synchrotron DESY, Hamburg, 22607, Germany.
10:00 - 10:30	IT 4.2	Michal Repisky
		"Modern X-ray spectroscopies with atomic mean-field X2C
		Hamiltonians"
		Hylleraas Centre for Quantum Molecular Sciences, Department of
		Chemistry, University of Tromsø – UiT The Arctic University of Norway,
10.20 11.00		N-9037 Tromsø, Norway.
10:30 - 11:00	Coffee B	reak
SESSION 10	ocongli	
Session Chair: Xia Invited Talks		
		Hama M. Osia as
11:00 – 11:30	IT 4.3	Harry M. Quiney
		"Calculation of Breit and QED effects using Gaussian spinor basis
		<i>functions"</i> School of Physics, The University of Melbourne, Victoria 3010, Australia.
		Mathematical Institute, University of Oxford, Oxford OX2 6GG, United
		Kingdom.
11:30 - 12:00	IT 4.4	Kenneth George Dyall
		"Basis Sets for Relativistic Atomic and Molecular Calculations"
		Dirac Solutions, 10527 NW Lost Park Drive, Portland, Oregon 97229,
		United States.
12:00 - 12:30	IT 4.5	Maen Salman
		"Vacuum polarization in the finite basis problem"
		Laboratoire de Chimie et Physique Quantique, UMR 5626 CNRS —
		Université Toulouse III-Paul Sabatier, 118 route de Narbonne, F-31062
		Toulouse, France.
12:30 - 13:30 13:30 - 14:30	Lunch Free - Tii	

REHE 2022

Session Chair: Fil Invited Talks	ippo De Anန္	gelis
14:30 – 15:00	IT 4.6	<u>Alessandro Erba</u> <i>"Spin Current Density Functional Theory (SCDFT) for Solids Made</i> <i>Practical: The Interplay of Spin-Orbit Coupling and Fock Exchange"</i> Department of Chemistry, University of Torino, via Giuria 5, 10125 Torino, Italy.
15:00 – 15:30	IT 4.7	Marius Kadek "Efficient all-electron four-component KohnSham theory for relativistic band structures and properties of periodic solids" Department of Physics, Northeastern University, Boston, Massachusetts 02115, United States. Hylleraas Centre for Quantum Molecular Sciences, Department of Chemistry, UiT The Arctic University of Norway, N-9037 Tromsø, Norway.
15:30 – 16:00	IT 4.8	Volker Blum "Relativistic Effects in Large, Complex Systems in an All-Electron Framework Based on Numeric Atom-Centered Basis Sets" Thomas Lord Department of Mechanical Engineering and Materials Science, Duke University, Durham, North Carolina 27708, United States. Department of Chemistry, Duke University, Durham, North Carolina 27708, United States.
16:00 - 16:30	IT 4.9	<u>Silvia Picozzi</u> <i>"Modelling of Spin-Orbit Coupling Effects in Ferroelectrics"</i> Consiglio Nazionale delle Ricerche CNR-SPIN, c/o Universitá degli Studi "G. D'Annunzio" di Chieti-Pescara, I-66100 Chieti, Italy.
16:30 - 17:00	Coffee B	reak
SESSION 12 Session Chair: Tr	and Saua	
Invited Talks	Ullu Saue	
	IT 4 10	Andrá Sovoro Poroira Comos
17:00 – 17:30	IT 4.10	André Severo Pereira Gomes "Relativistic correlated electronic structure and the calculation of accurate ground-state, core and valence properties of heavy element species" University of Lille, CNRS, UMR 8523 - PhLAM - Laboratory of Physics of Lasers, Atoms and Molecules, F-59000 Lille, France.
	IT 4.10	"Relativistic correlated electronic structure and the calculation of accurate ground-state, core and valence properties of heavy element species" University of Lille, CNRS, UMR 8523 - PhLAM - Laboratory of Physics of Lasers, Atoms and Molecules, F-59000 Lille, France.
17:00 – 17:30		<i>"Relativistic correlated electronic structure and the calculation of accurate ground-state, core and valence properties of heavy element species"</i> University of Lille, CNRS, UMR 8523 - PhLAM - Laboratory of Physics of
17:00 – 17:30		 <i>"Relativistic correlated electronic structure and the calculation of accurate ground-state, core and valence properties of heavy element species"</i> University of Lille, CNRS, UMR 8523 - PhLAM - Laboratory of Physics of Lasers, Atoms and Molecules, F-59000 Lille, France. Lan Cheng <i>"Analytic gradient techniques for spinor-based relativistic coupled-cluster theory"</i> Department of Chemistry, The Johns Hopkins University, Baltimore,
17:00 – 17:30 17:30 – 18:00	IT 4.11 IT 4.12	 <i>"Relativistic correlated electronic structure and the calculation of accurate ground-state, core and valence properties of heavy element species"</i> University of Lille, CNRS, UMR 8523 - PhLAM - Laboratory of Physics of Lasers, Atoms and Molecules, F-59000 Lille, France. Lan Cheng <i>"Analytic gradient techniques for spinor-based relativistic coupled-cluster theory"</i> Department of Chemistry, The Johns Hopkins University, Baltimore, Maryland 21218, United States. Xiaosong Li <i>"Four-Component Relativistic Multireference Methods: Find the Balance between Relativistic Effects and Electron Correlation"</i> Department of Chemistry, University of Washington, Seattle, Washington
17:00 - 17:30 17:30 - 18:00 18:00 - 18:30	IT 4.11 IT 4.12	 "Relativistic correlated electronic structure and the calculation of accurate ground-state, core and valence properties of heavy element species" University of Lille, CNRS, UMR 8523 - PhLAM - Laboratory of Physics of Lasers, Atoms and Molecules, F-59000 Lille, France. Lan Cheng "Analytic gradient techniques for spinor-based relativistic coupled-cluster theory" Department of Chemistry, The Johns Hopkins University, Baltimore, Maryland 21218, United States. Xiaosong Li "Four-Component Relativistic Multireference Methods: Find the Balance between Relativistic Effects and Electron Correlation" Department of Chemistry, University of Washington, Seattle, Washington 98195, United States.

Day 5 - Friday, Sep	tombor 30	th 2022
SESSION 13	itember 30	, 2022
Session Chair: Luca	as Visscher	
Invited Talks		
09:00 - 09:30	IT 5.1	Wenjian Liu
		"SOiCI: Combining iCI with SOC for Fine Structures of Heavy Systems"
		Qingdao Institute for Theoretical and Computational Sciences, Institute of Frontier and Interdisciplinary Science, Shandong University, Qingdao, Shandong 266237, People's Republic of China.
09:30 - 10:00	IT 5.2	Lukas Konecny
		"Linear Response in Relativistic Quantum-Electrodynamical Time- Dependent Density Functional Theory" Hylleraas Centre for Quantum Molecular Sciences, Department of Chemistry, University of Tromsø – UiT The Arctic University of Norway, N-9037 Tromsø, Norway.
10:00 - 10:30	IT 5.3	Aleksandra A. Kyuberis
		<i>"Theoretical study of properties of radioactive molecules"</i> Van Swinderen Institute for Particle Physics and Gravity (VSI), University of Groningen, Nijenborgh 4, 9747AG Groningen, The Netherlands.
10:30 - 11:00	IT 5.4	<u>llya I. Tupitsyn</u>
		"Specific features of electronic structure and chemical properties of super-heavy elements of the 7th and 8th periods" Department of Physics, St. Petersburg State University, Ulianovskaya 1, Petrodvorets, 198504 St. Petersburg, Russia.
11:00 - 11:15	Concludi	ng Remarks
11:15 – 12:00	Light lun	ch

POSTERS

13th International Conference on Relativistic Effects in Heavy-Element Chemistry and Physics From 26 September to 30 September 2022

Poster session - Tuesday 27th September and Wednesday 28th September

Poster session 1 – Tuesday 27th September – Odd numbers Poster session 2 – Wednesday 28th September – Even numbers

N°	NAME, ORGANIZATION	TITLE
1	Carsten Zülch Philipps-University Marburg	Molecular lons for Fundamental Physics: A Systematic Investigation Throughout the Periodic Table of Elements
2	Christian Tantardini The Arctic University of Norway	Multiwavelet implementation of the Dirac Equation
3	Dávid Ferenc Eötvös Loránd University	Towards an all-order explicitly correlated approach for precision spectroscopy
4	Diego Sorbelli University of Perugia	On the nature of the aurophilic interaction: a quest for covalent and spin-orbit coupling contributions
5	E. Eduardus University of Groningen	Towards Detection of Molecular Parity Violation in Helical Ferrocene, Ruthenocene, and Osmocene
6	Ignacio Agustín Aucar Northeastern National University	Parity-violating nuclear spin-rotation tensors in tetrahedral molecules
7	Jacek Rzadkiewicz NCBJ	Ionization energies of W ²⁺ through W ²⁷⁺
8	Jinxia Hu Sorbonne University - CNRS	The total atomic energies of the ground state configurations of many-electron isoelectronic series
9	Johann Valentin Pototschnig CNRS – University Toulouse III	Chemical insight from an improved Dailey–Townes model of nuclear quadrupole coupling
10	Juan José Aucar Northeastern National University	Relativistic corrections to the electric field gradient given by linear response elimination of the small component (LRESC) formalism
11	Karol Kozioł NCBJ	Low-lying energy levels of Th ³⁹⁺
12	Katarzyna Jakubowska University of Warsaw	Calculation of Vibrational Frequencies with Four-Component Relativistic DFT Method
13	Konstantin Gaul Philipps-University Marburg	Highly-charged actinide molecules: A versatile laboratory to study fundamental physics
14	Lorenzo Baldinelli University of Perugia	Computational Modelling of Electrocatalytic Processes on Coordination Polymers
15	Luca Gregori University of Perugia	Host-Dopant Dative Bonding Facilitates Molecular Doping in Tin- Lead Perovskites
16	Małgorzata Olejniczak University of Warsaw	Topological Data Analysis in quantum chemistry - what can new data abstractions tell us about the role of relativistic effects on bonding and reactivity?

POSTERS

17	Mariano T. Colombo Jofré Northeastern National University	Relativistic and QED corrections to one-bond indirect nuclear spin-spin couplings in X_2^{2+} and X_3^{2+} ions (X = Zn, Cd, Hg)
18	Marten Luit Reitsma University of Groningen	Relativistic Fock-space coupled cluster calculations for extracting nuclear moments and charge radii from spectroscopy
19	Martin van Horn CNRS – University Toulouse III	The validity of the electric dipole approximation in X-ray spectroscopy
20	Matteo De Santis CNRS – University of Lille	Environmental Effects with Frozen Density Embedding in the Real Time Time Dependent Dirac Kohn Sham framework
21	Michiko Atsumi University of Oslo	Compared non-relativistic effects and relativistic effects on M_2 (M=;Nh, Fl, Mc, Lv, Ts, and Og)
22	Odile Smits Massey University	The Dirac equation in strong Coulomb fields
23	Péter Jeszenszki Eötvös Loránd University	Variational Dirac–Coulomb approach with explicitly correlated basis functions
24	Raphaël Crosa-Rossa University of Groningen	Calculations of the electron affinity of polonium at the CCSD(T) level
25	Torsha Moitra The Arctic University of Norway	Developing theoretical beamlines for ultrafast spectroscopy
26	Xiang Yuan CNRS – University of Lille	Assessing MP2 frozen natural orbitals for relativistic electronic structure
27	Yangyang Guo University of Groningen	High accuracy calculations of electron affinity of heavy and superheavy elements
28	Yuly Andrea Chamorro Mena University of Groningen	Relativistic electronic structure calculations for measurements of symmetry violations: A matter of precision

DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
SEPTEMBER 26	SEPTEMBER 27	SEPTEMBER 28	SEPTEMBER 29	SEPTEMBER 30
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
		08:45 - 09:30	08:45 - 09:30	
	09:00 - 09:30	3° EXTENDED LECTURE	4° EXTENDED TALK	09:00 - 09:30
	2° EXTENDED LECTURE	Stephen T. Liddle	Christoph Helmut Keitel	36° INVITED TALK
	Yuri T. Oganessian			Wenjian Liu
	09:30 - 10:00	09:30 - 10:00	09:30 - 10:00	09:30 - 10:00
	2° INVITED TALK	16° INVITED TALK	24° INVITED TALK	37° INVITED TALK
	Patrick Steinegger	Tonya Vitova	Sang-Kil Son	Lukas Konecny
	10:00 - 10:30	10:00 - 10:30	10:00 - 10:30	10:00 - 10:30
	3° INVITED TALK	17° INVITED TALK Mauro Perfetti	25° INVITED TALK	38° INVITED TALK
	Jaideep Taggart Singh 10:30 - 11:00	10:30 - 11:00	Michal Repisky 10:30 - 11:00	Aleksandra A. Kyuberis 10:30 - 11:00
	10.30 - 11.00	10.50 - 11.00	10.50 - 11.00	39° INVITED TALK
	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	Ilya I. Tupitsyn
	11:00 - 11:30	11:00 - 11:30	11:00 - 11:30	11:00 - 11:15
	4° INVITED TALK	18° INVITED TALK	26° INVITED TALK	11.00 - 11.15
	Mustapha Laatiaoui	Paola Belanzoni	Harry M. Quiney	CONCLUDING REMARKS
	11:30 - 12:00	11:30 - 12:00	11:30 - 12:00	11:15 - 12:00
	5° INVITED TALK	19° INVITED TALK	27° INVITED TALK	11.15 12.00
	Anastasia Borschevsky	Minori Abe	Kenneth George Dyall	
	12:00 - 12:30	12:00 - 12:30	12:00 - 12:30	LIGHT LUNCH
	6° INVITED TALK	20° INVITED TALK	28° INVITED TALK	
	Valeria Pershina	Joel Creutzberg	Maen Salman	
	12:30 - 13:30	12:30 - 13:30	12:30 - 13:30	
	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	
	13:30 - 14:30	13:30 - 14:00	13:30 - 14:30	
		21° INVITED TALK		
		Daniele Cesarini		
	FREE TIME	14:00 - 14:30	FREE TIME	
		22° INVITED TALK		
14:30 - 18:00		Ivano Tavernelli		
	14:30 - 15:00	14:30 - 15:00	14:30 - 15:00	
	7° INVITED TALK	23° INVITED TALK	29° INVITED TALK	
	Peter Schwerdtfeger	Lucas Visscher	Alessandro Erba	
	15:00 - 15:30	15:15 - 19:30	15:00 - 15:30	
	8° INVITED TALK		30° INVITED TALK	
REGISTRATION	Ephraim Eliav		Marius Kadek	
	15:30 - 16:00		15:30 - 16:00	
	9° INVITED TALK		31° INVITED TALK	
	Vladimir Shabaev		Volker Blum	
	16:00 - 16:30		16:00 - 16:30	
	10° INVITED TALK		32° INVITED TALK	
	Paul Indelicato		Silvia Picozzi	
	16:30 - 17:00		16:30 - 17:00	
	COFFEE BREAK		COFFEE BREAK	
	17:00 - 17:30		17:00 - 17:30	
	11° INVITED TALK	EXCURSION TO ASSISI	33° INVITED TALK	
	Trond Saue	(Bus for Assisi departure at	André Severo Pereira Gomes	_
	17:30 - 18:00	15:15)	17:30 - 18:00	
18:00 - 18:30	12° INVITED TALK		34° INVITED TALK	
OPENING CEREMONY	Edit Mátyus	_	Lan Cheng	_
incl. Historical talk	18:00 - 18:30		18:00 - 18:30	
Pekka Pyykkö	13° INVITED TALK		35° INVITED TALK	
18:30 - 19:00	Krzysztof Pachucki	_	Xiaosong Li	-
1° EXTENDED LECTURE	18:30 - 19:00		18:30 - 19:30	
Victor V. Flambaum	14° INVITED TALK			
	Gustavo A. Aucar	-	DISCUSSION NEXT DELLE	
	19:00 - 19:30		DISCUSSION NEXT REHE	
	15° INVITED TALK			
1° INVITED TALK	Robert Derger			-
1° INVITED TALK W. H. Eugen Schwarz	Robert Berger	10.20 21.00	10.20 20.00	
1° INVITED TALK W. H. Eugen Schwarz	Robert Berger 19:30 - 21:00	19:30 - 21:00	19:30 - 20:00	
1° INVITED TALK W. H. Eugen Schwarz		19:30 - 21:00 DINNER	19:30 - 20:00 FREE TIME 20:00 - 23:30	
1° INVITED TALK W. H. Eugen Schwarz 19:30 - 21:00	19:30 - 21:00		FREE TIME 20:00 - 23:30	
W. H. Eugen Schwarz 19:30 - 21:00	19:30 - 21:00 DINNER	DINNER	FREE TIME	