

# Thursday 12

	Auditorium Benedetto Croce (Italian Cultural Institute)	
08:45	Participants Registration at the entrance of the Italian Cultural Institute	
09:00	Opening Session	
	<b>S01: Special Focus on Applications to Cultural Heritage and Art 1 (Chair Maria Pia Morigi)</b>	
09:30	Non-invasive analysis of the palette of Antonio Berni in four paintings from 1931 to 1944 by portable X-ray fluorescence spectroscopy (pXRF)	Marta Maier, Astrid Blanco Guerrero, Eugenia Tomasini and Gabriela Tomasini
09:50	A door to the past: X-Ray $\mu$ CT scan of an Egyptian animal mummy	Nahuel Vega, Peter Zabala Medina and Faramarz Sahra Gard
10:10	Complementary application of radiative analytical techniques for the conservation of archaeological metal objects from North Patagonia: an interdisciplinary methodological proposal	Josefina María Schweickardt, Marcia Bianchi Villelli and Pablo Daniel Pérez
10:30	Analytical Contributions in Restoration of “Los Capuchinos” Church’s frieze, Córdoba, Argentina	Marcela Mammana, Marcelo Rustán, Cazón Sofia, Verónica Shojjet and Alejandro Germanier
10:50	Coffee Break	
	<b>S02: Applications to space, earth and environmental sciences (Chair Pablo Daniel Perez)</b>	
11:20	Neutron production using the nuclear reaction $45\text{Sc}(p,n)45\text{Ti}$ driven by the 1.7 MV Tandem accelerator located at the Atomic Center Bariloche	Pablo Daniel Pérez, Gustavo Ruano, Martín Pérez, Nestor Haberkorn, Sergio Suárez and Jerónimo Blostein
11:40	Atomic Signatures of the Cosmos: XPS Study of Meteorite Surfaces	Faramarz Sahra Gard, Yamil Paz and Rogelio Daniel Acevedo
12:00	Preliminary Results of Erythrocytes Aggregation Parameters Under Gamma Radiation Exposure in Transfusion Medicine	Sabrina Lorena Porini, Mariel Elisa Galassi and Horacio Castellini
12:20	Lunch Interval	
	<b>S03: Processes in Radiation Physics (Chair Rafael Ferragut)</b>	
13:40	An Extended-Range Approach to Energy-Dispersive Inelastic X-ray Scattering Spectroscopy: Fundamentals and First Results of EDIXS+	Francisco Romero Carena, Héctor Jorge Sánchez and Juan José Leani
14:00	Experimental setup for the formation of an intense positronium beam for gravitation experiments	Alberto Galanti, Matias Nicolas Bayo, Rafael Omar Ferragut, Giuseppe Vinelli, Giuseppe Vinelli and Gabriele Rosi
14:20	Towards a Precision Measurement of the Antihydrogen Ground-State Hyperfine Constant at the ASACUSA Experiment	Matias Bayo, Alberto Galanti, Rafael Ferragut and Marco Giammarchi
14:40	Positron annihilation lifetime spectroscopy applied to perovskite photovoltaic materials	Abigail Williner, Silvia Tinte, Sergio Dalosto, Sandy Sánchez-Alonso, Rafael Ferragut and Javier Alejandro Schmidt
15:00	Coffee Break	
	<b>S04: Simulation of Radiation Transport and Detection (Chair Sandro Manservisi)</b>	
15:30	Carbon-ions irradiation: mean kinetic energy of the emitted electrons through H <sub>2</sub> O	Nicolás Esponda, Roberto Rivarola, Michele Quinto and Juan Monti
15:50	Identification of Calcification Composition Using Conical Slits in X-ray Scattering Imaging (CS-XSI): A Simulation and Experimental Study	Carolina Moravec de Viana Borges, Renata Olmedo Benedet, Marcelo Goncalves Honnicke and Martin Eduardo Poletti
16:10	X-ray imaging with a phase sensitive detector	Marcelo Honnicke
16:30	Innovative ion-based radiotherapies: from interaction cross-sections to clinical applications	Mario Alcócer-Ávila and Mariel Elisa Galassi
16:50	Proton Stopping Power in Air: Inelastic Atomic Processes and Implications for Hadrontherapy Dosimetry	Camila Strubbia Mangiarelli, Veronica Belen Tessaro, Michael Beuve and Mariel Elisa Galassi
17:10	Monte Carlo-based simulations in a computational thyroid model: towards the implementation of dosimetric calculations	Venecia Magalí Calandrón, Luis Héctor Illanes and Cecilia Yamil Chain
17:30	Free time	
19:45	Social activity (not supported by the organizers)	