

HINPw6 Workshop Schedule

14th May 2021 (Day 1)

14:00-14:15	Opening Comments Ioannis Emmanouil - <i>Dean of the School of Natural Sciences</i> Christianna Mitsopoulou - <i>Chair of the Chemistry Department</i> Andreas Koutselos - <i>Director of the Physical Chemistry Laboratory</i>
14:15-15:00	Nicolas Alamanos <i>The societal impact of nuclear physics</i>

Session 1 - Nuclear Structure

Chairs: Dennis Bonatsos / Georgios Lalazissis

15:00-15:30	Peter Ring <i>Relativistic Brueckner-Hartree-Fock Theory in Nuclear Matter and Finite Nuclear Systems</i>
15:30-16:00	Nils Paar <i>Nuclear magnetic transitions in the relativistic energy density functional approach</i>
16:00-16:30	Costel Petrache <i>Chirality and wobbling in nuclei: new achievements and perspectives</i>
16:30-17:00	Nikolay Minkov <i>Shape and electromagnetic properties of the ^{229m}Th isomer</i>
17:00-17:20	Dennis Bonatsos <i>Connecting the proxy-SU(3) symmetry to the shell model</i>
17:20-17:40	Andriana Martinou <i>The islands of shape coexistence within the Elliott and the proxy-SU(3) models</i>

17:40-18:00	Smaragda Sarantopoulou <i>Highest weight irreducible representations favored by nuclear forces within SU(3)-symmetric fermionic systems</i>
18:00-18:20	Vaia Prassa <i>Shape evolution of Hg isotopes within the covariant density functional theory</i>
18:20-19:00	Break

Session 2 - Advances in Nuclear Facilities

Chair: Nikolaos Nicolis

19:00-19:30	James Kolata <i>Weak Interaction Physics at TwinSol</i>
19:30-20:00	Sherry Yennello <i>Advancing Research in Texas through Experiments in Medical Isotope Science</i>
20:00-20:30	Ivan Stekl <i>Neutrino Physics and dark matter at IEAP CTU Prague</i>
20:30-21:00	Manuela Cavallaro <i>Upgrade of the MAGNEX spectrometer toward the high-intensity phase of NUMEN</i>
21:00-21:30	Patrick O'Malley <i>Current scientific efforts at the Nuclear Science Laboratory</i>

15th May 2021 (Day 2)

Session 1 - Nuclear Reactions

Chair: Georgios Souliotis

14:00-14:30	Francesco Cappuzzello <i>Heavy-ion induced quasi-elastic reactions in view of the NUMEN project</i>
14:30-14:50	Onoufrios Sgouros <i>Study of the one-proton transfer reaction in the $^{18}\text{O} + ^{48}\text{Ti}$ collision at 275 MeV</i>
14:50-15:20	Ismael Martel <i>Low energy reactions of halo nuclei</i>

15:20-15:50	Manuela Rodríguez-Gallardo <i>Reaction dynamics of exotic and stable weakly-bound nuclei using a four-body continuum-discretized coupled-channels formalism</i>
15:50-16:20	Jesús Casal <i>Linking structure and dynamics with two-neutron halos</i>
16:20-16:40	Athina Pakou <i>Searching for “treasures” at deep sub-barrier energies: The ^8B and ^7Be case</i>
16:40-17:00	Vasileios Soukeras <i>Study of $^4\text{He}(^4\text{He}, ^4\text{He})^4\text{He}^*$ inelastic scattering at the MAGNEX facility</i>
17:00-17:30	Vlasios Petousis <i>Chasing the X17 Boson – Theory and Experiments</i>
17:30-17:50	Victor Iacob <i>Precise branching ratio measurement for the superallowed β decay of ^{34}Ar</i>
17:50-18:30	Break

Session 2 - Astrophysics

Chair: Charalampos Moustakidis

18:30-19:00	Joseph Natowitz <i>Employing ternary fission as a probe of low density nuclear matter</i>
19:00-19:30	Aldo Bonasera <i>Calculation of the $^{12}\text{C}+^{12}\text{C}$ sub-barrier fusion cross section in an imaginary time-dependent mean field theory</i>
19:30-20:00	Agatino Musumarra <i>From Nuclear Astrophysics to Fundamental Nuclear Physics: challenging experimental approaches at n_TOF (CERN)</i>
20:00-20:30	Georgios Perdikakis <i>Experimental constraints on reaction rates relevant to the radiogenic heating of planets</i>
20:30-21:00	Angel Miguel Sanchez Benitez <i>Spectroscopy of key nuclei in astrophysics by beta-delayed proton emission</i>

21:00-21:30	Luis Acosta <i>The AMS technique as an important tool for the measurement of astrophysical cross sections</i>
21:30-21:45	Polychronis Koliogiannis <i>Thermal properties of hot and dense matter: Influence of rapid rotation on protoneutron stars, hot neutron stars, and neutron star merger remnants</i>
21:45-22:00	Alkiviadis Kanakis-Pegios <i>Constraints on the speed of sound of dense nuclear matter through the tidal deformability of neutron stars</i>
22:00-22:15	Arsenia Choroizidou <i>Momentum dependent mean-fields of hyperons & antihyperons</i>

16th May 2021 (Day 3)

Session 1 - Flash Talks

Chair: Athina Pakou

15:30-15:35	Theodosia Giamouki <i>Constraining the neutron star equation of state via gamma ray burst remnants and gravitational wave radiation</i>
15:35-15:40	Themistoklis Deloudis <i>Twin neutron stars: probe of phase transition from hadronic to quark matter</i>
15:40-15:45	Vasileios Soukeras <i>Low energy proton induced reactions for application purposes</i>
15:45-15:50	Onoufrios Sgouros <i>Study of the neutron induced radiation background at the MAGNEX facility via FLUKA simulations</i>
15:50-16:00	Break

Session 2 - Heavy-Ion Reactions and Rare Isotope Production

Chair: Theodoros Gaitanos

16:00-16:30	Hua Zheng <i>Connecting the N_{EoS} to the interplay between fusion and quasi-fission processes in low-energy nuclear reactions</i>
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16:30-16:50	Nikolaos Nicolis <i>Two-stage description of $^{56}\text{Fe}+p$ spallation reactions at 0.3-1.5 GeV/A</i>
16:50-17:10	Georgios Souliotis <i>Recent developments in the study of peripheral collisions below the Fermi Energy</i>
17:10-17:25	Olga Fasoula <i>Studies of multinucleon transfer in peripheral collisions of with ^{124}Sn, ^{112}Sn at 15 MeV/nucleon</i>
17:25-17:40	Stergios Koulouris <i>Studies of peripheral heavy-ion reactions with the MAGNEX spectrometer for the production of neutron-rich isotopes</i>
17:40-17:55	Konstantina Palli <i>Microscopic dynamics description of multinucleon transfer in peripheral collisions of ^{40}Ar with ^{64}Ni, ^{58}Ni at 15 MeV/nucleon</i>
17:55-18:10	Theodoros Depastas <i>Constrained Fermionic Dynamics of Nuclear Systems: Near Ground State Properties and the Isospin Symmetry</i>
18:10-18:40	Walter Loveland <i>Total kinetic energy release in the fast neutron induced fission of actinide nuclei</i>
18:40-19:00	Break

Session 3 - Applications

Chair: Georgios Souliotis

19:00-19:20	Ninel Nica <i>Texas A&M US Nuclear DATA Program</i>
19:20-19:50	Marcia Rodrigues <i>A novel approach to medical radioisotope production using inverse kinematics</i>
19:50-20:10	Justin Mabilia <i>Enhanced production of ^{99}Mo in inverse kinematics heavy ion reactions</i>

Closing Remarks