Monday, May 15

9:00 Opening Address
Chairperson: C. H. Dasso (Sevilla)

9:20 A. Faessler (Tübingen): Can one determine the neutrino mass by electron capture?
9:45 M. J. Borge (Madrid): Recent results from ISOLDE and HIE-ISOLDE
10:10 H. Sagawa (Wako): Three-body model for nuclei near and beyond neutron drip line
10:35 J. Kvasil (Praha): Elimination of the spurious admixtures in the QRPA E0, E1, E2 and M1 excitations of deformed nuclei

10:55 Coffee Break
Chairperson: S. Lunardi (Padova)

11:20 F. Sammarruca (Moscow): Chiral effective field theory and nucleonic matter
11:45 P. Reiter (Köln): Nuclear-structure physics with MINIBALL at HIE-ISOLDE
12:10 A. Gal (Jerusalem): Charge symmetry breaking in Λ hypernuclei
12:35 C. Michelagnoli (Grenoble): FIPPS - A new instrument for the spectroscopy of n-rich nuclei at ILL
13:00 G. De Gregorio (Napoli): Odd nuclei spectroscopy within a self-consistent multiphonon approach

13:20 Session close
Chairperson: G. de Angelis (Legnaro)

15:05 E. Epelbaum (Bochum): Chiral nuclear forces and currents: State of the art and future perspectives
15:30 J.D. Holt (Vancouver): Extending ab initio nuclear structure to all light- and medium-mass nuclei
15:55 A. Jungclaus (Madrid): Selected results from in-beam and decay γ-ray spectroscopy in the $^{132}$Sn region performed at RIKEN
16:20 F. Cappuzzello (Catania): Recent results on nuclear structure at the INFN-LNS laboratory

16:40 Coffee Break
Chairperson: N. Itaco (Napoli)

17:05 B. R. Barrett (Tucson): The no core shell model in an effective field theory approach
17:30 M. Horoi (Mount Pleasant): Nuclear structure for double beta decay
17:55 D. Carbone (Catania): Nuclear structure studies performed using the ($^{18}$O,$^{16}$O) two-neutron transfer reactions
18:15 H. Heylen (Heidelberg): The structure of exotic nuclei studied using collinear laser spectroscopy: Recent results from COLLAPS

18:35 Session close
**Tuesday, May 16**

Chairperson: **P. Reiter (Köln):**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30</td>
<td>R. Machleidt (Moscow):</td>
<td>Consistent high-quality two-nucleon potentials up to fifth order of the chiral expansion</td>
</tr>
<tr>
<td>8:55</td>
<td>T. Aumann (Darmstadt):</td>
<td>Quasifree (p,2p) knockout reactions with radioactive beams in inverse and complete kinematics at R3B</td>
</tr>
<tr>
<td>9:20</td>
<td>G. de France (Caen):</td>
<td>The EXILL campaign</td>
</tr>
<tr>
<td>9:45</td>
<td>S. Shlomo (College Station):</td>
<td>Short-range correlations effect on the single particle proton $3s_{1/2}$ wave function in $^{206}$Pb</td>
</tr>
<tr>
<td>10:10</td>
<td>M. La Commara (Napoli):</td>
<td>$^8$B+$^{208}$Pb elastic scattering at Coulomb barrier energies</td>
</tr>
</tbody>
</table>

10:30 Coffee break

Chairperson: **M. J. Borge (Madrid)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:55</td>
<td>U. van Kolck (Orsay):</td>
<td>Nuclear physics from an expansion around the unitarity limit</td>
</tr>
<tr>
<td>11:20</td>
<td>A. Gade (East Lansing):</td>
<td>Nuclear structure studies of exotic nuclei with in-beam gamma-ray spectroscopy</td>
</tr>
<tr>
<td>11:45</td>
<td>C. Barbieri (Guildford):</td>
<td>Self-consistent Green’s function computations of medium mass isotopes</td>
</tr>
<tr>
<td>12:10</td>
<td>H. Sakurai (Wako):</td>
<td>Recent highlights and future projects for the nuclear structure study at RIBF</td>
</tr>
<tr>
<td>12:35</td>
<td>P. Pragati (Roorkee):</td>
<td>Competition between spherical and octupole deformation in $^{216}$Fr</td>
</tr>
</tbody>
</table>

12:55 Session close
Wednesday, May 17

Chairperson: R. Machleidt (Moscow)

8:30  **B.A. Brown (East Lansing):** Nuclear matrix elements for double-beta decay of $^{76}$Ge
8:55  **D. Balabanski (Bucharest):** Experiments with brilliant gamma beams at ELI-NP
9:20  **S. Bacca (Vancouver):** Electromagnetic reactions from coupled-cluster theory
9:45  **B. Fernández-Domínguez (Santiago de Compostela):** How sharp is the transition into the N=20 island of inversion for Mg isotopes?
10:05 **L.S. Ferreira (Lisboa):** New proton drip-line nuclei relevant to nuclear astrophysics
10:25 **Yu. M. Tchuvil’sky (Moskva):** Ab initio calculations of one-nucleon halo states
10:45  Coffee Break

Chairperson: L. Coraggio (Napoli)

11:10 **F. Nowacki (Strasbourg):** Shell model far from stability: Islands of inversion mergers
11:35 **G. Benzoni (Milano):** Evolution of deformation in Ba isotopic chain
12:00 **M. Cavallaro (Catania):** Nuclear reactions for neutrinoless double beta decay
12:20 **W.A. Richter (Somerset West):** Shell-model studies of the $^{34}_{sp}^{60}C(p,\gamma)^{35}_{sp}Ar$ rp reaction rates
12:40  **P. Gulshani (Mississauga):** A microscopic model for uni-axial rotation and its connection to other collective models
13:00  Session close

Chairperson: H. Witala (Kraków)

14:45  **T. Otsuka (Tokyo):** Quantum self-organization and nuclear collectivities
15:10  **A. Andrichetto (Legnaro):** SPES: An intense source of neutron-rich radioactive beams at LEGNARO
15:30  **L. M. Fraile (Madrid):** Spying on intruders in the $^{68}Ni$ region
15:50  **K. Arnswald (Köln):** Enhanced collectivity along the N=Z line: Lifetime measurements in $^{44}Ti$, $^{48}Cr$, and $^{52}Fe$
16:15  **T. Suzuki (Tokyo):** Structure of two-neutron halo in light drip-line nuclei
16:35  **S. Karampagia (East Lansing):** Low-energy magnetic radiation enhancement within the nuclear shell model
16:55  Coffee Break

Chairperson: A. Gade (East Lansing)

17:20  **G. Hagen (Oak Ridge):** Coupled-cluster computations of atomic nuclei
17:45  **V. Zelevinsky (East Lansing):** Nuclear level density, thermalization, chaos and collectivity
18:10  **S.M. Lenzi (Padova):** The AGATA campaign in GANIL: Results and perspectives
18:30  **I. N. Gratchev (Grenoble):** The identification of excited states and collectivity of $^{88}Se$
18:50  **J. Wilhelmy (Köln):** Investigation of the $\gamma$-decay behavior of $^{48,50}_{sp}Ti$ and $^{52}_{sp}Cr$ with the $\gamma^{3}$ setup at HlyS
19:10  Session close
Thursday, May 18

Chairperson: J. N. Ginocchio (Los Alamos)

9:00  F. Iachello (New Haven): Cluster structure of light nuclei
9:25  M. Gai (Groton): Experimental tests of the algebraic cluster model
9:50  A. Heusler (Heidelberg): Rotating and vibrating α-clusters in heavy nuclei
10:10 V. Della Rocca (L’Acquila): Cluster-shell model: Structure of $^9$Be, $^9$B
10:30 A. Di Pietro (Catania): Experimental investigation of exotic clustering in $^{13}$B and $^{14}$C using resonance scattering method

10:50 Coffee Break

Chairperson: B.A. Brown (East Lansing)

11:15  P. Ring (München): On the way to a microscopic derivation of covariant density functionals in nuclei
11:40  F.R. Xu (Beijing): Resonances of many-body nuclear systems
12:05  P.E. Georgoudis (Jerusalem): Aspects of shape coexistence in the geometric collective model
12:25  N. Sandulescu (Bucharest): Proton-neutron pairing and alpha-like quartet correlations in nuclei
12:50  M. Sambataro (Catania): Quartetting in even-even and odd-odd N=Z nuclei

13:10 Session close

Chairperson: H. Sakurai (Wako)

14:40  A. Vitturi (Padova): Interplay of break-up and transfer processes in reactions involving weakly-bound systems: A simple one-dimensional model
15:05  J.J. Valiente Dobón (Legnaro): Nuclear structure of moderately exotic nuclei populated via multinucleon transfer reactions
15:30  V.O. Nesterenko (Dubna): Dipole toroidal resonance: Vortical properties, possible origins of pygmy mode, anomalous deformation features
15:50  Y. F. Niu (Bucharest): Beyond mean-field description of Gamow-Teller resonance and β-decay in superfluid nuclei
16:10  P. Vesely (Praha): Recent applications of the equation of motion phonon method to even-even nuclei and exotic nuclear systems

16:30 Coffee Break

Chairperson: G. Benzoni (Milano)

16:55  F. Recchia (Padova): Neutron knockout from $^{68,70}$Ni ground and isomeric states
17:05  D. Gambacurta (Bucharest): Subtraction method in the SRPA approximation with Skyrme and Gogny interactions
17:35  C. Parascandolo (Napoli): Dynamical dipole mode in heavy-ion fusion reactions
17:55  J. Pei (Beijing): Probing surface flows in deformed soft dipole modes

18:15 Poster session
Friday, May 19

Chairperson: F. R. Xu (Beijing)

09:00 K. Langanke (Darmstadt): The FAIR chance for nuclear astrophysics
09:25 D. Hasell (Cambridge): Hard two-photon contribution to elastic lepton-proton scattering determined by the OLYMPUS experiment
09:50 N. Dinh Dang (Wako): Role of exact pairing in the description of nuclear level density and radiative strength function
10:15 S. Pastore (Los Alamos): Fundamental physics with electroweak probes of nuclei
10:35 R. Crespo (Lisboa): Merging first principle studies and few-body reaction formalism for interpretation of RIB experiments

10:55 Coffee Break

Chairperson: M. Gai (Groton)

11:20 N. Pietralla (Darmstadt): Shell evolution and E2 collectivity: New spectroscopic information
11:45 Y. Alhassid (New Haven): The shell model Monte Carlo method: Recent developments and applications
12:10 N. van Giai (Orsay): Relativistic Hartree-Fock-Bogoliubov theory: Applications to spherical nuclei
12:35 A. Zilges (Köln): The low lying electric multipole response of nuclei: New experimental approaches
12:55 J.M.G. Gómez (Madrid): Experimental evidence of chaos in the bound states of $^{208}$Pb

13:15 Session close

Chairperson: A. Di Pietro (Catania)

14:40 J.P. Draayer (Baton Rouge): Many-particle realization of the Nilsson model and the magic of pseudo symmetries in nuclei
15:05 C. Petrache (Orsay): Exotic rotations in lanthanides
15:30 A.A. Voinov (Dubna): Study of the $^{249-251}$Cf$^{+}$$^{48}$Ca reactions: Recent results and outlook
15:50 H. Naidja (Strasbourg): Spectroscopic properties and collectivity in the nuclei above $^{132}$Sn core

16:10 Coffee Break

16:30 Discussion: The role of nuclear structure towards the new frontier in nuclear physics
S. Bacca (Vancouver), G. de Angelis (Legnaro), F. Iachello (New Haven)

18:30 Session close