PROGRAM

Sunday, May 20

9:00  Opening address

L. Merola, Head, Sezione di Napoli of the Istituto Nazionale di Fisica Nucleare (INFN)

A. Covello, Seminar Chairman

Chairperson:  D. Schwalm (Heidelberg)

9:30  A. Shotter (TRIUMF): Radioactive Beams at TRIUMF

10:00  H. Ueno (RIKEN): Status of RI Beam Factory Project at RIKEN

10:30  Coffee break

11:00  M. Thoennessen (Michigan): Unbound States of Neutron-Rich Oxygen Isotopes

11:30  C. Baktash (Oak Ridge): Nuclear Structure Studies in the $^{132}$Sn Region Using Accelerated Radioactive Ion Beams

12:00  L. S. Ferreira (Lisboa): Observing the Nuclear Drip Lines

12:20  Session close

Chairperson:  P. Sona (Firenze)

15:00  J. Äystö (Jyväskylä): Nuclear Structure Studies of $N$-rich Nuclei Using ISOL Facilities at CERN and Jyväskylä

15:30  F. Azaiez (Orsay): Shell Structure Evolution Far from Stability: Recent Results from GANIL

16:00  N. Benczer-Koller (Rutgers): Magnetic Moment Measurements: Pushing the Limits

16:30  Coffee break

17:00  A.V. Ramayya (Vanderbilt): Technique for Measuring Angular Correlations and g-Factors of Excited States with Large Multi-Detector Arrays: an Application to Neutron Rich Nuclei Produced by the Spontaneous Fission of $^{252}$Cf

17:20  C. Fahlander (Lund): Isospin Symmetry and Proton Decay; Identification of the $10^+$ Isomer in $^{54}$Ni

17:40  G. de Angelis (Legnaro): Exploring the Evolution of the Shell Structure by Means of Deep Inelastic Reactions

18:00  S. Lunardi (Padova): Spectroscopy of Neutron-Rich Nuclei in the $A \approx 60$ Region

18:20  D. Q. Fang (Shanghai): Studies on the exotic structure of $^{23}$Al by measurements of $\sigma_R$ and $P_{//}$

18:40  M. Tomaselli (Darmstadt): Level Structures, Transitions and Correlated Beta-Decay of Exotic Nuclei

19:00  Session close

Monday, May 21

Chairperson:  L. Moretto (Berkeley)

9:00  P. Egelhof (GSI): Nuclear Structure Studies on Exotic Nuclei with Radioactive Beams – Present Status and Future Perspectives at FAIR

9:30  G. Prete (Legnaro): The SPES Direct Target Project at the Laboratori Nazionali di Legnaro

10:00  J. Wambach (Darmstadt): Modern Aspects of Nuclear Structure Theory

10:30  R. Schiavilla (Jefferson Lab.): Correlations in Nuclei: Recent Progress on an Old Problem

11:00  Coffee break
11:30  I. Sick (Basel): Correlated Nucleons in $k$- and $r$-Space
12:00  T.T.S. Kuo (Stony Brook): Roles of All-Order Core Polarization and Brown-Rho Scaling in Nucleon Effective Interactions
12:30  A. Schwenk (TRIUMF): Low-Momentum Interactions for Nuclei
13:00  Session Close

Chairperson: V. Voronov (Dubna)
15:00  P. Vary (Iowa): Ab $-$ initio & ab $-$ exitu No-Core Shell Model
15:30  G. Hagen (Oak Ridge): Ab-Initio Coupled Cluster Theory for Nuclear Structure
15:50  J. P. Draayer (Baton Rouge): Symplectic No-Core Shell Model
16:10  T. Dytrych (Baton Rouge): Role of Two-Particle-Two-Hole Symplectic Irreducible Representations in ab Initio No-Core Shell Model Results for Light Nuclei
16:30  Coffee break
17:00  A. Faessler (Tübingen): Nuclear Structure, Double Beta Decay and Test of Physics Beyond the Standard Model
17:30  A. A. Raduta (Bucharest): Double Beta Decay to the First 2$^+$ State
18:00  N. Van Giai (Orsay): Pion-Induced Interaction in Relativistic Hartree-Fock
18:20  Session close

Tuesday, May 22
Chairperson: N. Benczer-Koller (Rutgers)
9:00   I. Talmi (Rehovot): Structure of $A = 14$ Nuclei: The NCSM and the Shell Model
9:20   B. A. Brown (Michigan): New Theoretical Results for sd and pf Shell Nuclei
9:50   A. Covello (Napoli): Realistic Shell-Model Calculations for Exotic Nuclei Around Closed Shells
10:30  Coffee break
11:00  N. Itaco (Napoli): Shell-Model Calculations with Low-Momentum Nucleon-Nucleon Interactions Based upon Chiral Perturbation Theory
11:20  B. Fornal (Kraków): Shell-Model States in Neutron-Rich Ca and Ar Nuclei
11:40  A. Heusler (Heidelberg): Nuclear Structure Information from Pb($p, p'$) via Isobaric Analog Resonances in Bi
12:00  D. L. Balabanski (Camerino): First Results from the g-RISING Campaign: the g-Factor of the 19/2$^+$ Isomer in $^{127}$Sn
12:20  Session close

Wednesday, May 24
Chairperson: L. Ferreira (Lisboa)
9:00   J. N. Ginocchio (Los Alamos): From the Quark Shell Model to the Nuclear Shell Model
9:20   S. S. Dimitrova (Sofia): Density Matrix Renormalization Group Method for Large-Scale Nuclear Shell Model Problems
9:40   M. Horoi (Michigan): Shell Model Correlations in Nuclei: Coexistence of Spherical, Deformed and Superdeformed Bands
10:00  R. Orlandi (Legnaro): Lifetime Measurements in $^{67}$Se and $^{67}$As as Mirror Pair: a Test of Isospin Symmetry Breaking
10:20  R. Schwengner (Dresden): Dipole-Strength Distributions up to the Giant Dipole Resonance Deduced from Photon Scattering
10:40  Coffee break
11:10  N. Pietralla (Köln): Isovector Quadrupole Excitations in the Valence Shell of Vibrational Nuclei
11:40  P. von Neuman Cosel (Darmstadt): Soft Electric Dipole Modes: Some Selected Examples
12:10  A. Zilges (Darmstadt): The Structure of the Pygmy Dipole Resonance

12:40  Session close

Chairperson:  A. A. Raduta (Bucharest)

15:00  S. Antalic (Bratislava): Beta-Delayed Fission Activity in the Bi-At Region
15:20  P. G. Bizzeti (Firenze): Critical Point Behaviour of $^{224}$Ra and $^{224}$Th
15:40  I. Hamamoto (Lund): Chiral Bands in Nuclei?
16:00  S. Leoni (Milano): Nuclear Structure at Extreme Conditions through Gamma Spectroscopy Measurements
16:20  N. Lo Iudice (Napoli): Collective bands in Superdeformed Nuclei
16:40  Coffee break

17:10  K. Sugawara-Tanabe (Tokyo): Selection Rules for the Intra and Interband Electromagnetic Transitions and Quantum Numbers for the Triaxial Rotor in Odd A Nuclei
17:30  Ch. Stoyanov (Sofia): Nuclear Structure Calculation at Large Domain of Excitation Energy
17:50  J. Kvasil (Prague): TDDFT with Skyrme Forces: Description of Giant Resonances in Deformed Nuclei
18:10  Session close

Thursday, May 24

Chairperson:  G. Pisent (Padova)

9:00   J. H. Hamilton (Vanderbilt): Even- and Odd-Parity Bands in $^{108,110,112}$Ru and Odd-Parity Doublets in $^{106}$Mo
9:20   V. V. Voronov (Dubna): Finite Rank Approximation for Skyrme Forces and Effects of the Particle-Particle Channel
9:40   N. D. Dang (RIKEN): Thermal Pairing in Nuclei
10:00  F. Palumbo (Frascati): Odd Nuclei in a Number Conserving Approach to Bosonization
10:20  V. I. Abrosimov (Kiev): Kinetic Equation for Nuclear Response with Pairing
10:40  Coffee break

11:10  V. Sushkov (Dubna): Low-Lying $0^+$ states in Deformed Nuclei
11:30  F. Andreozzi (Napoli): New Microscopic Approach to Multiphonon Nuclear Spectra
11:50  K. Tanabe (Saitama): Variational Equation for Quantum Number Projection
12:10  Session close

Chairperson:  J. Wambach (Darmstadt)

15:00  L. G. Moretto (Berkeley): Phase Diagram of Uncharged, Symmetric, Infinite Nuclear Matter from Multifragmentation Data
15:20  J. M. G. Gómez (Madrid): Recent Developments in the Spectral Fluctuations of Nuclei, Hadrons and Other Quantum Systems
15:40  D. Schwalm (Heidelberg): Bremsstrahlung Accompanied $\alpha$ Decay of $^{210}$Po
16:00  M. Gai (Connecticut): The Coulomb Dissociation of $^8$B; a New Tool for Nuclear Astrophysics
16:20  Coffee break

Chairperson:  A. Covello (Napoli)

16:50  Round Table Discussion on “Trends and Perspectives in Nuclear Structure”
   G. de Angelis, F. Azaiez, C. Baktash, J. P. Draayer, A. Faessler, I. Talmi