Scientific program

- **Wednesday**

  20^{00} Official Welcome

  20^{10} Opening lecture
  St. Szpikowski: *40 years of a dynamical proton-neutron pairing*

  20^{45} Evening party: Discussions strengthened by a glass of wine

- **Thursday morning session:** PAIRING CORRELATIONS

  8^{45} J.-F. Berger: *Aspects of nuclear pairing with the Gogny effective interaction*

  9^{20} J. Dukelsky: *Exactly Solvable Pairing Hamiltonians*

  9^{55} M. Bender: *Pairing correlations beyond the self-consistent mean field*

  10^{30} C o f f e e   b r e a k

  11^{00} K. Pomorski: *Pairing as collective mode*

  11^{35} X. Viñas: *Quasi-local density functional theory in nuclei including pairing correlations*

  12^{10} T. Domański: *Renormalization group approach to the pairing instabilities*

  12^{45} E n d   o f   s e s s i o n

- **Thursday afternoon session:** ISOVECTOR / ISOSCALAR PAIRING INTERACTION

  15^{00} W. Satuła: *Probing effective NN interaction at band termination*

  15^{35} A. Afanasjev: *High-spin structures as the probes of proton-neutron pairing*

  16^{10} K. Wysokiński: *Super-conductivity in metallic nanograins*

  16^{45} C o f f e e   b r e a k

  17^{10} K. Sieja: *Particle number conserving approach to correlations*

  17^{30} H. Molique: *The nuclear pairing interaction treated with a tailor made method*

  17^{50} V. Pangon: *Stochastic approach of the nuclear pairing*

  18^{15} E n d   o f   s e s s i o n

  19^{00} **Barbecue**

- **Friday morning session:** Pairing, Super-heavy Nuclei, Fission

  8^{45} H.-J. Krappe: *Cluster model versus Fermi fluid approach in fission theory*

  9^{20} A. Sobiczewski: *Heights of fission barriers*

  9^{55} F. Goennenwein: *Angular momenta of near-spherical fission fragments*

  10^{30} C o f f e e   b r e a k

  11^{00} J. Bartel: *Fissility parameter as function of temperature and angular momentum*

  11^{20} A. Staszczak: *Pairing Properties of Super-heavy Nuclei*

  11^{40} M. Kowal: *Non-axial hexadecapole deformations of heaviest nuclei*

  12^{00} A. Dobrowolski: *Semi-classical Fission Barriers with Different Proton-Neutron Deformations*

  12^{20} K. Siwek-Wilczyńska: *Role of mass asymmetry in fusion of super-heavy nuclei*

  12^{40} E n d   o f   s e s s i o n

- **Friday afternoon session:** Microscopic Theories

  15^{00} J. Dudek: *Point Group Symmetries - From Molecules to Nuclei*

  15^{35} J. Kvasil: *Exact microscopic multiphonon approach to the nuclear eigenvalue problem*

  16^{10} L.M. Robledo: *Particle number restoration: its implementation and impact in nuclear structure calculations*

  16^{45} C o f f e e   b r e a k

  17^{10} F. Nowacki: *Double Beta Decay and Nuclear Structure*

  17^{45} L. Próchniak: *Collective pairing hamiltonian in a self-consistent framework*

  18^{05} E n d   o f   s e s s i o n

  20^{00} **Poster Session**

- **Saturday morning session:** NUCLEAR REACTIONS

  8^{45} Y. Abe : *Dynamics of Massive systems and Synthesis of the Super-heavy Elements*

  9^{20} N. Carjan: *Emission of scission neutrons in the sudden approximation*

  9^{55} E. Piasecki: *Coulomb barrier distributions: puzzles and recent experiments*

  10^{30} C o f f e e b r e a k

  11^{00} J. Dąbrowski *The associated Σ production and the nuclear interaction of Σ hyperons*

  11^{20} I. Skwira-Chalot: *Ternary reactions in 197Au+197Au collisions revisited*

  11^{40} E. Casarejos: *Investigating fission dynamics at high excitation energy by using ^{238}U (1 A GeV)+^{2}H collisions*

  12^{00} E n d o f t h e s e s s i o n

- **Saturday afternoon session:** NUCLEAR STRUCTURE METHODS

  15^{00} I. Ragnarsson: *Favoured high-spin states in N≈Z nuclei close to ^{100}Sn*

  15^{35} E. Kwaśniewicz: *Boson Approach to the Structure of $A = 62$ nuclei*

  15^{55} G. Carlsson: *Many-particles plus rotor description of magnetic bands at high spin*

  16^{15} M. Zalewski: *Terminating states as a unique laboratory for testing nuclear Local Energy Density Functional*

  16^{35} C o f f e e b r e a k

  17^{00} O. Gorbachenko: *Vibrational state contribution to nuclear level density*

  17^{20} J. Rożynek: *The Nucleon Structure and the Equation of State for Nuclear Matter*

  17^{40} H. Olofsson: *Correlations and Chaotic Motion in Nuclear Masses*

  18^{00} K. Zberecki: *Quantum fluctuations and stability of tetrahedral deformation in atomic nuclei*

  18^{20} A. Góźdź: *Equivalent nuclear deformations*

  18^{40} *Closing of the Workshop*

  19^{00} E n d o f t h e s e s s i o n

  19^{30} **Conference dinner**

- **Sunday morning:**

  10^{00} *Excursion*

  14^{00} *Departure*

List of Posters

1. A. Baran, Z. Łojewski and K. Sieja: *Pairing and α decay*
2. M. Dębicki, A. Góźdź, K. Stefańska: *Proton emission, γ–lasers and time interference*
3. M. Góźdź: *Suppression of neutrinoless double beta decay from present neutrino data*
4. I. Kadenko: *Neutron Multiplicity Calculations for Fission Fragments Using Empire II Code*
5. V.O. Nesterenko, J. Kvasil, W. Kleinig, P.-G. Reinhard, and P. Vesely: *Efficient self-consistent description of multipole giant resonances in deformed nuclei: method and first results*
6. B. Nerlo-Pomorska, K. Pomorski: *On the average pairing energy in nuclei*
7. V. Plujko: *Using Isomer Ratios for Mean Angular Momenta Calculations of Primary Fission Fragments*
8. M. Warda: *Toroidal structure of super-heavy nuclei in HFB theory*
9. H. Zduńczuk, J. Dobaczewski and W. Satuła: *Angular momentum projection after variation from symmetry unrestricted Slater Determinants: formalism and applications*