

## 4. PRIZES

### **JINR Prizes:**

#### **For Methodical and Engineering Research:**

##### Second Prize:

V.L.Aksenov, A.M.Balagurov, V.G.Simkin, V.A.Trounov, P.Hiismaki. "Neutron High Resolution Fourier Diffractometer at the IBR-2 Pulsed Reactor"

##### **FLNP Prizes:**

#### **In Nuclear Physics:**

##### First Prize:

W.I.Furman, A.A.Bogdzal, P.Geltenbort, N.N.Gonin, M.A.Guseinov, J.Kliman, Yu.N.Kopach, L.K.Kozlovsky, L.V.Mikhailov, A.B.Popov, G.Postma, N.S.Robotnov, D.I.Tambovtsev. "Investigations of the Energy Dependence of the Angular Anisotropy of Fission Fragments from the Fission of  $^{235}\text{U}$  Induced by Resonance Neutrons"

##### Second Prize:

A.I.Frank, V.G.Nosov, D.B.Amanzholova. "Quantum Nonstationary Phenomena Arising as a Result of Periodic Action on the Neutron Wave"

V.R.Skoy, E.I.Sharapov, N.A.Gundorin, Yu.P.Popov, Yu.V.Prokofichev, G.Mitchell, N.Roberson. "Isotope Identification of a Parity Violating 3.2 eV Resonance in Xenon"

#### **In Condensed Matter Physics:**

##### First Prize:

V.I.Bodnarchuk, L.S.Davtyan, D.A.Korneev. "Geometrical Phase Effects in Neutron Optics"

D.A.Korneev, V.I.Bodnarchuk, L.S.Davtyan. "Observation of Nonadiabatic Geometrical Effects in a Time-of-Flight Experiment with Polarized Neutrons"

L.S.Davtyan. "Geometry of Adiabatic Changes (General Analysis)"

##### Second Prize:

V.L.Aksenov, A.M.Balagurov, V.V.Sikolenko, V.G.Simkin et al. "Precision Neutron Diffraction Study of the High- $T_c$  Superconductor  $\text{HgBa}_2\text{Cu}_{4+d}$ "

D.A.Korneev, V.I.Bodnarchuk, V.K.Ignatovich. "Off-Specular Neutron Reflection from Magnetic Media with Nondiagonal Reflectivity Matrices"

##### Third Prize:

A.M.Balagurov, V.Yu.Pomjakushin, V.G.Simkin, A.A.Zakharov. "Neutron Diffraction Study of Phase Separation in  $\text{La}_2\text{CuO}_{4+d}$  Single Crystals"

#### **In Applied Physics:**

##### First Prize:

Yu.M.Gledenov, G.Khuukhenkhuu, M.V.Sedysheva et al. "Investigation of the Fast Neutron Induced ( $n, \alpha$ ) Reaction (Experimental Techniques)"

##### Second Prize:

V.B.Zlokazov. "AUTOX-A Program for Autoindexing Reflections from Multiphase Polycrystals"

##### Third Prize:

A.D.Bozhko, A.P.Kobzev, D.A.Korneev, L.P.Chernenko, D.M.Shirokov. "Complete Profile Analysis of Diamond-Like Films"

*The JINR young scientists contest in condensed matter and nuclear physics with neutrons:*

First Prize:

V.V.Sikolenko. "Neutron Diffraction Studies of the Magnetic Structure of a  $UPd_2Ge_2$  Compound"

Second Prize:

Yu.N.Kopach. "Experimental Studies of the Energy Dependence of the Angular Anisotropy of Fission Fragments from the Resonance Neutron induces Fission of  $^{235}U$ "

V.G.Cherezov. "Proof of the Entropy Contribution to the Intermembrane Interaction"

Encouraging Prize:

N.Kardzhilov. "Study of Stresses in a Al-Bi-Al Sandwich"