

Third Laureate Fundamental Research



- **Research Work Title:** Generalized commutators, cohomologies and identities
- **Researcher:** Professor Askar Jumadildayev
- **Nationality:** Kazakhstan
- **Field:** Mathematics
- **Position:** Professor , Chair of Algebra Laboratory
- **Scientific Affiliation:** Institute of Mathematics, Academy of Sciences of Kazakhstan

Abstract:

Cohomologies of Cartan Type Lie algebras was calculated. Central extensions of infinite-dimensional Lie algebras was constructed. Modular analogues of Levi-Malcev theorem was proved. Identities of algebras connected with differentiation and integration operators was described. N-ary generalisation of Lie commutator was constructed. Identities of Zinbiel algebras, Leibniz algebras, Novikov algebras and Right-symmetric algebras was studied. Cohomology theory for right-symmetric algebras was developed. Permutation statistics and Lie elements in free algebras was also studied.

Biography:

Born in Shieli region, Kazakhstan (1956). Married. Four children. Graduated from Moscow State University (1977). Scientific degrees: Ph.D (1980), Second Ph.D (1988). Professor of the Kazakh State University (1990). Elections for the National Academy of Sciences of Kazakhstan: Corresponding Member (1995), Full Member (2004). Humboldt Fellowship (96-1995). State Prize of the Republic of Kazakhstan (2011), Khwarizmi International Award (2012).