Abstract:
Let $A$ and $B$ be finite dimensional simple real algebras with a division grading by a finite abelian group $G$. In this talk, we give necessary and sufficient conditions for the coincidence of the graded identities of $A$ and $B$. For algebras over an algebraically closed field it is known that $A$ and $B$ satisfy the same graded identities if and only if they are isomorphic as graded algebras. This is a joint work with Professor Yuri Bahturin.