Natural families in evolution algebras

Yolanda Cabrera Casado

University of Málaga – Spain

The modeling of non-mendelian genetics brought forth a new type of genetic algebras called evolution algebras. Basic concepts of evolution algebras of arbitrary dimension are studied. The notion of the range of evolution, natural vector, and subspace of evolution is introduced, and there is a decomposition of evolution algebras relative to the latter. This is a joint work with Mercedes Siles Molina and Nadia Boudi.