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„Algebraic K-theory via binary complexes of fixed length."

Abstract:
Both Nenashev and Grayson gave models for the first algebraic K-group of an exact category in terms of binary acyclic complexes. We give a modified model that uses binary acylic complexes of a fixed length k as generators and whose relations are a special case of the Nenashev relation. As an application, we see that algebraic K-theory commutes with infinite products. This is joint work with Bernhard Köck and Christoph Winges.