

1154-15-1364      **Christina Pospisil\*** ([pospisil.christina@gmx.de](mailto:pospisil.christina@gmx.de)). *Generalization Theory for Linear Algebra II: Appropriate Inverses for Non-Injective and Non-Surjective Mappings.*

Continues the talk at JMM 2019 Generalization Theory for Linear Algebra I. In this second part of the Generalization Theory for Linear Algebra appropriate inverses for non-injective mappings as well as non-surjective mappings are presented. Another step for the definition of a general determinant theory. Moreover, applications in the natural sciences are investigated and presented. (Received September 15, 2019)