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Christina Pospisil* (pospisil.christina@gmx.de), pospisil.christina@gmx.de. *Generalization
Theory of Linear Algebra II.*

This talk continues Generalization Theory of Linear Algebra I (first part was presented at JMM 2019) and provides inverses for non-injective mappings in multiple dimensions, inverses for non-surjective mappings in one and multiple dimensions and introduces a general determinant theory (second part was presented at JMM 2020). In future work there will be further operations and applications to physics and other natural sciences be explored. (Received August 20, 2020)