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

The talk continues the first part of the project Generalization Theory of Linear Algebra I (first part was presented at JMM 2019) and presents 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 applications to physics and other natural sciences be explored. (Received January 20, 2020)