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**Connections between secondary and tertiary curricula for linear algebra with focus on the concept of a determinant – proposal with technology support.**

Filler, Andreas (ed.) et al., Vernetzungen und Anwendungen im Geometrieunterricht. Ziele und Visionen 2020. Vorträge auf der 28. Herbsttagung des Arbeitskreises Geometrie in der Gesellschaft für Didaktik der Mathematik vom 09. bis 11. September 2011 in Marktbreit. Hildesheim: Franzbecker (ISBN 978-3-88120-588-7). 109-120 (2012).

Summary: The paper discusses the concept of a determinant and its connections to other mathematical concepts in courses of linear algebra, at both secondary and tertiary levels from a curricular point of view. It also identifies two recourses for students' difficulties in understanding the concept and offers a teaching approach with applets created by dynamic geometry software. The designed applets are supported by proposed exercises, which aim to widen students' concept images of a determinant.

*Classification:* H64 H65 U74 U75

*Keywords:* determinants; linear algebra; matrices; dynamic geometry software