



# Discontinuous Galerkin Methods (German Edition)

*Stefanie Winter*

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Diplomarbeit aus dem Jahr 2004 im Fachbereich Mathematik - Angewandte Mathematik, Note: 1,3, Universität Stuttgart, 23 Quellen im Literaturverzeichnis, Sprache: Deutsch, Abstract: In hyperbolischen Differentialgleichung, wie etwa bei den Erhaltungsgleichungen, können Lösungen oft sogenannte shocks - zu deutsch etwa Sprünge - enthalten. Wünschenswert war und ist daher eine Art der Methode zur numerischen Berechnung von Lösungen zu finden, die mit diesen auftretenden Unstetigkeiten umzugehen, vermag. Die spezielle Art der Problemformulierung in der Discontinuous Galerkin Methode erlaubt Unstetigkeiten entlang einzelner Elementkanten und sie unterstützt damit die Verwendung allgemeiner, unstrukturierter Gitter. Man kann wohl sagen, dass sich die Motivation, daher auch Anfänge und Schwerpunktsgebiete der Discontinuous Galerkin Methode in Arbeiten zu der numerischen Untersuchung von Lösungen der hyperbolischen Probleme wiederfinden. [...] In dieser Arbeit wollen wir unser Augenmerk speziell auf die Theorie der Discontinuous Galerkin Methode für elliptische Differentialgleichungen lenken. Dabei orientiert sich die Ausarbeitung hauptsächlich an Arnold, Brezzi, Cockburn, Marini, Castillo, Perugia, Manzini, Pietra und Russo [2],[3],[4]. [...]

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