



Sommersemester 2022

Dresdner Mathematisches Seminar

Prof. Dr. Alexandra Schwartz

TU Dresden, Institut für Numerische Mathematik

Antrittsvorlesung:

Optimality Conditions between Meaningfulness and Computability

In continuous optimization we use optimality conditions such as stationarity or the KKT conditions to identify solution candidates. Here, stronger optimality conditions have the advantage that they result in a smaller set of solution candidates and thus hopefully in fewer non optimal candidates. However, at the same time it is harder to verify these stronger optimality conditions and to compute corresponding solution candidates. This tradeoff is illustrated using examples from several classes of optimization problems and related applications.

Mittwoch, 06.07.2022, 17:00 Uhr – Willers-Bau, Raum **C 307 (!)**

Leitung: Prof. Dr. Andreas Fischer

Vor dem Vortrag findet **ab 16:30 Uhr** ein gemeinsames **Kaffee-/Teetrinken** vor Hörsaal **WIL C 307** statt.

Nach der Veranstaltung lädt Prof. Dr. Alexandra Schwartz zu Häppchen/Snacks und Getränken ein.

**Bereich Mathematik und Na-
turwissenschaften**

Fakultät Mathematik