

Dr. Jean-Daniel Djida

(African Institute for Mathematical Sciences (AIMS) Research
Center, Kamerun / TU Dresden, Institut für Analysis)

hält im Rahmen seines **Habilitationsvorhabens**
einen Fachvortrag zum Thema

Nonlocal complement value problem for a global in time parabolic equation

Abstract:

We investigate weak solutions to a semilinear parabolic equation involving nonlocal operators of Lévy type. In many cases, this type of equation arose when describing the chaotic dynamics of a polymer molecule in a liquid. This equation is nonlocal in time and space. It contains a term called the interaction potential that depends on the time integral of the solution over the entire interval of solving the problem. The existence of a weak solution to the nonlocal complement value problem is proven. Furthermore, under fair conditions on the interaction potential, the uniqueness of this solution is established. This work is joint with Guy Fabrice Foghem Gounoue and Yannick Kouakep Tchaptchie.

Datum: **Donnerstag, 25. November 2021**

Zeit: **15:15 Uhr**

Der Vortrag findet über das Videokonferenzsystem „Zoom“ statt.

Ansprechpartner: Prof. Dr. Ralph Chill

Der virtuelle Raum ist über folgenden Link erreichbar:

<https://tu-dresden.zoom.us/j/89887698744?pwd=TVR3djhXNkV2U1ZFMTJ3czBOd3c4dz09>

Meeting ID: 898 8769 8744, Passcode: @8%qq2

Alle Interessenten sind herzlich eingeladen.