TECHNISCHE UNIVERSITÄT
CHEMNITZ

Fakultät für Mathematik
Chemnitzer Mathematisches Colloquium

E i n l a d u n g

In der Reihe „Chemnitzer Mathematisches Colloquium“ der Fakultät für Mathematik der TU Chemnitz spricht

Herr Prof. Dr. Philipp Reiter, TU Chemnitz

über das Thema

The geometry of knots.

Der Vortrag findet am

Donnerstag, dem 5. November 2020, um 16.00 Uhr, per Videokonferenz

statt.

Ich möchte Sie hiermit recht herzlich zu dieser Veranstaltung einladen. Das Kolloquium wird von Herrn Prof. Dr. Oliver Ernst geleitet.

Abstract:
What happens if one forms a knot in a piece of springy wire? Which shape will it take? Will it become planar or spherical or something else?

We encounter long slender bendable objects such as shoelaces, rubber bands, and wires in everyday life. They can be observed on all length scales, from macromolecules to submarine communications cables.

Despite our modern wireless technology, we live in a wired world and sometimes struggle with topology. For instance, is there an efficient way to untangle cable spaghetti?

In this talk I will discuss a very elementary model which allows for proving rigorous results on equilibrium states and the stability of numerical schemes.

Prof. Dr. Oliver Ernst
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