



Oberseminar
Geometrische Analysis, Differentialgeometrie und Relativitätstheorie

Am Donnerstag, den **04.05.2023** spricht um **14:15 Uhr** im Raum **S9 (C06H05)** und über Zoom

Dr. Stéphanie Cupit-Foutou
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über das Thema

A generalization of Sylvester's law of inertia

Sylvester's law of inertia for real quadratic forms in n variables can be interpreted as a parametrization of the $GL_n(\mathbf{R})$ -orbits in the real locus of the set of complex quadratic forms equipped with the real structure defined by the complex conjugation of matrices. The set of non-degenerate complex quadratic forms is an instance of a *complex symmetric space* and more generally of a *spherical space*. After having introduced these spaces properly, I will explain how, jointly with D. Timashev, we obtain a generalization of Sylvester's law of inertia for such spaces.

Den Zoom-Link erhalten Sie per E-Mail von Frau Martina Jung oder Frau Martina Neu.
For participating online, please sign up by sending an email to Martina Jung or Martina Neu.

Hierzu wird herzlich eingeladen.

Carla Cederbaum, Gerhard Huisken, zusammen mit Jan Metzger (Potsdam)