Einladung zum Mathematischen Kolloquium mit Vor-Kolloquium

16:00 - 16:45 Uhr Vor-Kolloquium im N14 für Studierende und Promovierende, moderiert von Lisa Hilken

„A short tour in complex projective space“

Complex projective space is a fundamental object in geometry. In this talk I will describe several key features of complex projective space which are relevant for my colloquium talk “Minimal Lagrangians and where to find them”.

Es spricht am Montag, den 03.12.2018, um 17:15 Uhr

Prof. Jason D. Lotay

(University College London)

über das Thema „Minimal Lagrangians and where to find them“

A classical problem going back to ancient Greece is to find the shortest curve in the plane enclosing a given area: the isoperimetric problem. A similar question is whether given a curve on a surface it can be deformed to a shortest one. Whilst the solutions to these classical problems are well-known, natural generalisations in higher dimensions are mostly unsolved. I will explain how this leads us to the study of minimal Lagrangians and the question of how to find them, which will take us to the interface between symplectic topology, Riemannian geometry and analysis of nonlinear PDEs, with links to theoretical physics.

Der Hauptvortrag findet im Hörsaal N14 (M1) des Mathematischen Instituts (Gebäude C, Auf der Morgenstelle 10) statt. Zuvor wird zum Tee im Hermann-Hankel-Raum (6. Stock, ab 16 Uhr 45) eingeladen.