Singular K3 surfaces of small class number.

A fundamental question in arithmetic geometry is to know when a variety over \( \mathbb{C} \) admits a model over \( \mathbb{Q} \) or some number field. The case of elliptic curves is already well understood. It is natural to ask what happens in the case of K3 surfaces. In this talk I will mention recent results in this problem for K3 surfaces of maximal Picard rank as well as obstructions in the field of definition and a possible way to handle this problem with elliptic fibrations.

Donnerstag, 05.12.2019
12:00 - 13:00, Raum g117
Hauptgebäude der Leibniz Universität Hannover
Alle Interessierten sind herzlich eingeladen.