



Leibniz  
Universität  
Hannover

## Oberseminar

Institut für Algebraische Geometrie

Ignacio Barros

(Humboldt Universität zu Berlin)

# Geometry of the moduli of $n$ -pointed K3 surfaces of genus 11

We prove that the moduli space of polarized  $K3$  surfaces of genus eleven with  $n$  marked points is unirational when  $n \leq 6$  and uniruled when  $n \leq 7$ . As a consequence, we settle a long standing but not proved assertion about the unirationality of  $\mathcal{M}_{11,n}$  for  $n \leq 6$ . We also prove that the moduli space of polarized  $K3$  surfaces of genus eleven with  $9$  marked points has non-negative Kodaira dimension.

11.01.2018

12:00 – 12:45, g117

Alle Interessierten sind herzlich eingeladen.