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Leibniz  
Universität  
Hannover

# Oberseminar zur Algebra und Algebraischen Kombinatorik

**Dr. Piotr Pokora**

(Leibniz Universität Hannover)

## „Hirzebruch-type inequalities, plane curve configurations and associated algebraic surfaces “

In the talk I will present an outline of Hirzebruch's idea which allows to construct surfaces of general type with interesting properties – I will focus on the combinatorial part of the construction. Especially, we show how to obtain families of the so-called Hirzebruch-type inequalities for  $d$ -configurations of plane curves – a natural generalization of line arrangements for higher degrees curves. At the end of the talk I will present some challenging open problems related to Hirzebruch's construction, one of them is devoted to the existence of a certain very rigid family of line arrangements.

**Montag, 09.01.2017**

**ab 14:00 Uhr, Raum a410**

Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

Institut für Algebra, Zahlentheorie  
und Diskrete Mathematik