



**Berufungsvorträge**  
**„ALGEBRAISCHE GEOMETRIE“**

Die Berufungsvorträge schließen folgende Punkte mit ein: Didaktischer Vortrag (25 Minuten)  
Fragen/Pause (10 Minuten)  
Wissenschaftlicher Vortrag (45 Minuten)  
Fragen/Pause (15 Minuten)  
Kommissionelles Hearing -  
(Dekanatsbesprechungszimmer, 11. Stock)

**Freitag, 5. April 2019, Hörsaal 15**

**Stefan Schreieder**  
**(LMU München)**

**9:00 Uhr: Didaktischer Vortrag**  
**“The Baire category theorem”**

**9:35 Uhr: Wissenschaftlicher Vortrag**  
**“The rationality problem for hypersurfaces”**

A classical problem in algebraic geometry asks to determine which hypersurfaces in projective space are rational. We give an introduction to this problem and explain recent developments in the subject.

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**Freitag, 5. April 2019, Seminarraum 11**

**Vivek Shende**  
**(UC Berkeley)**

**14:00 Uhr: Didaktischer Vortrag**  
**“Categories from conormals”**

I will give an illustrated introduction to the microlocal study of sheaves, focusing on example calculations illustrating how interesting categories and moduli spaces (quiver representations; cluster varieties; moduli of irregular local systems) are determined by legendrian geometry.

**14:35 Uhr: Wissenschaftlicher Vortrag**  
**“Gluing the mirror”**

Homological mirror symmetry postulates an equivalence between categories arising from algebraic geometry on the one side and symplectic geometry on the other. In particular, categorical features on the one side should be replicated on the other. I will explain how known structural results in algebraic geometry lead to certain expectations on the symplectic side; some of which are now theorems, and which in turn can be used to approach mirror symmetry by breaking the problem into some elementary pieces.