



Leibniz  
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Hannover

# Oberseminar Institut für Algebraische Geometrie

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## **Biextensions.**

Beilinson's conjectures link extensions of motives to special values of zeta and L-functions. What happens if instead of extensions (i.e. mixed motives with two weight pieces) we consider biextensions which are mixed motives with three weight pieces? The classical example is the Poincare line bundle  $P$  associated to a curve  $C$ .  $P$  is a line bundle over  $J \times J$ , the product of two copies of the jacobian. Central to the theory is the classical height pairing on algebraic cycles, but there are also mysterious examples which suggest higher Beilinson conjectures and generalized height pairings. I will focus on interesting examples and try to avoid detailed technical questions.

**Donnerstag , 16.12.2021**

**16:30 - 17:30, B302**

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**Alle Interessierten sind herzlich eingeladen.**