

# Mathematics Graduate Seminar

**Dr. Marco Merkli  
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**Thursday, November 24, 2016  
1:00p.m., HH-3017**

*The Heisenberg uncertainty principle*

**Abstract:**

I will derive and explain this principle, which says that it is not possible, for example, to know simultaneously the position and the velocity of a quantum particle. This feature of quantum mechanics is very different from classical mechanics. It is a direct consequence of the probabilistic and the non-commutative nature of the quantum world.