

Graduate Seminar

Speaker

**Professor Marco Merkli
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**Thursday, March 7, 2019
1pm, HH-3017**

The uncertainty principle in quantum theory

Abstract:

I will explain what Heisenberg's famous uncertainty principle means. This principle can be phrased as a mathematical Theorem (which I will state and prove, as it is not hard). The true content of the theorem lies in its quantum mechanical interpretation, saying for instance that "it is impossible to measure with accuracy both the position and the speed of an object simultaneously". This, of course, is in stark contrast with what we are used to from 'ordinary' (classical) physics.