







Mo 26.11.18 13:30 Uhr P 603

## **Beyond Schrödinger's Cat**

Can guantum mechanics be used to describe a physicist who herself uses guantum mechanics? Clearly, if quantum mechanics was a universally valid physical theory, the answer should be yes. In my talk, I will present an extension of Schrödinger's cat thought experiment, with the cat replaced by a quantum physicist (or, maybe preferably, a computer that is programmed to make predictions based on the laws of quantum physics). This allows us to provide an answer to the question posed above.

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The talk is based on the recent paper "Quantum theory cannot consistently describe the use of itself" by Frauchiger and Renner (Nature Communications 9, 3711, 2018).