

**From numerical aspects of stochastic financial models to the foundations of stochastic differential equations (and back)**

FRI/E3.1 15:30–16:20
-------------------------

*Peter Friz* (TU Berlin)

We shall survey how higher order approximations schemes to stochastic differential equations have led to a fresh, if not revolutionary, view of Ito's important theory. In turn, this new ("rough path") understanding, has led to powerful numerical techniques for option pricing.