



Mini-Workshop “Analysis of PDEs”  
March 27th - March 31st, 2023

**9:00 - 10:00 am, Thursday, March 30th 2023**  
**Seminar room: SR 1.067, Math Building 20.30**

## Compressible fluid flows with uncertain data

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### **Abstract**

We introduce a new concept of statistical solution in the framework of the Navier-Stokes-(Fourier) system describing the motion of a general compressible, viscous and possibly heat conducting fluid. Theoretical results are applied to the problems of convergence of numerical schemes with uncertain data. Applications to the Monte Carlo and stochastic collocation methods will be discussed.