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## DK Seminar

April 13, 2016, 14:15 - 15:45  
Vienna University of Technology,  
Freihaus, green area, 4th floor, 101C

**David McCormick**

University of Sussex

### **Magnetic relaxation and the non-resistive MHD equations**

In this talk I will present some recent results connected with the idea of magnetic relaxation, concerning the existence and uniqueness of solutions to the viscous non-resistive MHD equations in Sobolev and Besov spaces. These involve a new commutator estimate (and a counterexample to the estimate in the critical case), which is a partial generalisation of that of Kato & Ponce (1988). This is joint work with various subsets of J. Robinson, J. Rodrigo, C. Fefferman and J-Y. Chemin.