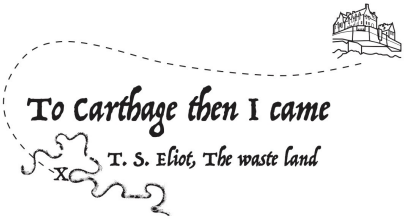
John Ball
Heriot-Watt, Edinburgh



Monday 16th May
12:00 (Tunis time – GMT+1, UTC+1)

Monodromy and approach to equilibrium for viscoelastic models allowing microstructure

For certain models of one-dimensional viscoelasticity, there are infinitely many equilibria representing phase mixtures. In order to prove convergence as time tends to infinity of solutions to a single equilibrium, it seems necessary to impose a nondegeneracy condition on the constitutive equation for the stress. The talk will explain this, and show how in some cases the nondegeneracy condition can be proved using the monodromy group of a holomorphic function. This is joint work with Inna Capdeboscq and Yasemin Şengül.