Speaker: **Helge Dietert** (CNRS Paris)

Title: *Stability criterion and resolvent estimates for boundary layer*

Summary: For boundary layer models, like the IBL or triple deck model, we explore how the stability of the high-frequency limit can be understood through complex analysis, analogous to the Penrose criterion in kinetic theory. We then discuss estimates on the resolvent equation which show the persistence for high frequencies and lead to the well-posedness of the Prandtl equation in Gevrey 2.