1153-76-109 **Charles R. Doering*** (doering@umich.edu), Center for the Study of Complex Systems, and Departments of Mathematics and Physics, University of Michigan, Ann Arbor, MI 48109-1043.
DNS of Rayleigh-Bénard convection.

The vexing question of heat transport scaling in Rayleigh-Bénard convection is naturally, but not easily, investigated by direct numerical simulation (DNS) of solutions to the equations of motion. In this talk we survey some computational studies aimed at measuring Nusselt-Rayleigh number relation over orders of magnitude required to study various theoretical conjectures and check analytical estimates. (Received August 20, 2019)