

Tutorial sheet 14

Discussion topics: Let yourself be inspired by questions that might arise when going through the texts referred to in the following “exercises”.

31. Classical linear response theory

Educate yourself on the issue by having a look at the few pages uploaded on the lecture web site at http://www.physik.uni-bielefeld.de/~borghini/Teaching/Nonequilibrium/07_22c.pdf

32. Caldeira–Leggett model

Discover the basics of that model, used for instance to describe friction in a quantum mechanical setup, by reading the pages uploaded on the lecture web site on both the classical

http://www.physik.uni-bielefeld.de/~borghini/Teaching/Nonequilibrium/07_22a.pdf

and quantum mechanical

http://www.physik.uni-bielefeld.de/~borghini/Teaching/Nonequilibrium/07_22b.pdf

implementations.

Please do not hesitate to signal typos, points in need of clarification, or even mistakes!