993SM – Laboratory of Computational Physics

TO DO, EVERY WEEK:

- the exercises in one or the other language (Fortran90 / Python)
- NOT necessarily all in both languages!
- but at least ONE in a different language

(so that you start practicing with both...)

(we are providing you AT LEAST a code in Python and a code in Fortran90 ready to use for one of the exercises!)

TO DO, DURING THE COURSE:

• 3 homeworks (similar to the exercises)

(in the due time; if you can not, at least BEFORE the exam - with some additional request)

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Tentative schedule of the next weeks:

- week III (this): random numbers with non uniform distributions
- week IV (March 20...): simulations of random physical processes (radioactive decay; random walks) => start | HOMEWORK
- weekV (March 27...): numerical integration (MonteCarlo vs. deterministic methods)
- => add a problem to the I HOMEWORK (the whole hw due on: April 12)
- week VI (April 3 ... (Easter)... April 14: Metropolis MonteCarlo method

then (tentative):

- II HOMEWORK on Ising model due on ~May 7
- III HOMEWORK on Fluids (LJ, MC vs. MD) due on ~June 6