PHYSICS 573: NUMERICAL METHODS

PHYSICS 643: COMPUTATIONAL PHYSICS

HOMEWORK ASSIGNMENT 4

Due: Feb. 22, 2022

- Read *NR* §7.0, §7.1, §7.3.x. and §7.7.
- Prepare a numerical method that computes random numbers and save the source code at ~/p643/outbox/home4.
- Test and demonstrate the uniformity and performance of that random number generator, saving the output. State the period of the generator, if known, in a README.
- Prepare a very simple, physics-related "simulation" that uses your random number generator, briefly mentioning the simulated physics in the README. The simulation should have some sort of appropriate output. Save the source code, program, README, and output at ~/p643/outbox/home4.
- As usual, follow the general guidelines from the end of Assignment 3.

Assignments are posted at our Instructure Canvas course site https://utk.instructure.com. Other information concerning this class is available at http://sites.google.com/site/utkp643.

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