The Chinese University of Hong Kong

PHYS4061 Computational Physics, 1st semester, 2019-2020

Homework 2

Rewrite the Faddeev-LeVerrier algorithm in lecture notes 7 in your preferred language. Use the revised program to calculate the inverse of a 4x4 matrix, you can use any matrix you like, make sure an inverse exists.

\* You must implement the inverse, but you can check the result against inverse computed by calling library.

Please comment your code, including how to compile and run your code.

Submit to [ylfchong@phy.cuhk.edu.hk](mailto:ylfchong@phy.cuhk.edu.hk). Please use email title "PHYS4061 HW2 submission (name)" and name your code like this: hw2_(name).c . For example, title: "PHYS4061 HW2 submission Chong Yau Lun Felix" and hw2_ChongYauLunFelix.c .

Due date: 17 Oct 2019

Score will be deducted if the submission is late.