COMPUTING METHODS IN HEP Exercise 1 Spring 2025

(To be returned by 10:15 on Friday 24.1.)

1. Create a git repository for this course by forking the repo

https://gitlab.cern.ch/slehti/CompInHEP2024.git

Commit all your answers into your git repo under CompInHEP2024/Exercises/Ex<n >/returned_answers/< yourname >. Never commit data in your repo, or it will get too big. Please make sure that I have permission to access your repo.

Please give me instructions by email to sami.lehti(at)cern.ch how to access your git repository.

2. Create a LaTeX document which contains Feynman graphs for the lowest order contributions to electron-positron annihilation (Fig.1.8 in Ref [?]). Place the two figures in parallel, and use a joint caption below the figures. Add reference using BibTeX.



Figure 1: Feynman graphs for the lowest order contributions to electron-positron annihilation [?].

3. Write a Makefile which produces a pdf file from the source files used in 2.