Version - January 24, 2023

January 24, 2023 (Week 1)

High Energy Physics Computing Basics, Part 1

Objectives:

- Introductions (get to know instructor and classmates)
- Set up functioning work station

Outline:

- Introductions
    - Code of conduct
    - Session recordings
    - Round-table introductions
- Expectations/goals
    - From instructor:
        - Course outline
        - Materials from previous years (Indico category)
    - From students:
        - Previous experience
        - What materials do you want to cover?
        - What skills do you want to feel confident in before the summer?
- Available setup round-table
    - OS
    - VSCode/Terminal/puTTy
        - VSCode: https://code.visualstudio.com/
        - puTTy: https://www.putty.org/
    - Coding language experience
    - CERN account
    - Grid certificate
- Exercises
    - e-groups (https://e-groups.cern.ch)
        - Atlas-usa-calstate-summer2023
    - Set up functioning workstation (VSCode or Terminal)
        - Windows: download https://git-scm.com/download/win
    - Basic terminal commands (ls, cd, pwd, touch, more, rm, mv, cp, wildcards, paths, options, history, man/–help)
    - Text editors (vim/emacs and VSCode)
    - .bash_profile and .bash_rc
        - Aliases

        - Prompt customization
    - ssh
        - Log into lxplus
        - X11 (XQuartz/Xming)
        - scp
        - ssh config
    - VSCode GUI

Homework - due 8am January 26, 2023:

- Fill out office hours poll (https://www.when2meet.com/?18419967-O8iZP)
- Subscribe to course e-group
- Practice terminal commands and create personal reference sheet
- Reflect on your expectations/goals for this class and email to instructor