

1. Getting Started

1. Install C or fortran on your computer. Edit, compile, and run a ‘Hello World’ application. Make a screen cap showing (i) your code (ii) the compiler command (iii) the application invocation (iv) the result. Document and submit where you obtained your compiler and how you installed it.

2. Install a quality graphing program. Document and submit where you obtained your program and how you installed it. Create a publication quality graph from the data file on the class web site. This file’s format is columns of $\mathbf{x}, \mathbf{y}, \mathbf{dy}$ data. Label the x-axis “E (GeV)” and the y-axis “ σ (nb)”. Produce a postscript or pdf version of your figure.

3. Install $\text{T}_{\text{E}}\text{X}$ and $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ on your computer. Document and submit where you obtained your distribution and how you installed it. Create a latex file with the solution to this assignment. This means you will need to include a figure which contains your screen cap from question 1 and your plot from question 2. Also include at least one citation and the following equation:

$$\int_0^{\infty} \Pi_{\mu\nu}(\vec{r}) d^3r = \frac{F_{\mu\nu}}{\pi} \quad (1)$$