

QFT Homework 1 Due 15 Sept 2022

This homework is due to <https://uwcloud.uwinnipeg.ca/s/Xks9XWXz9yo5CpG> by 10:59PM on the due date. Your file(s) must be in PDF format; they may be black-and-white scans or photographs of hardcopies (all converted to PDF), PDF prepared by LaTeX, or PDF prepared with a word processor *using an equation editor*.

I have listed your name with the problem you will present on 14 Sept. Note that you only need to hand in the first section of problems for a grade.

Reading Assignment: Srednicki 3, Tong §2.3-5 (§2.1,2,6 suggested)

1. **Lorentz Transformations** *Srednicki problem 2.8* Presentation: Zunaira
2. **The Momentum Operator** *Srednicki problem 3.4* Presentation: Bardh
3. **Complex Scalar** *Srednicki problem 3.5* Presentation: Phil

Not to be marked

4. **Multiparticle States** *Srednick 3.2* Presentation: Naman
5. **Filling In Blanks** *Srednicki 2.1-4, 3.1*