

Willoughby Seago

**Theoretical Physics**

# **Gauge Theories in Particle Physics**

January 16, 2023

**COURSE NOTES**

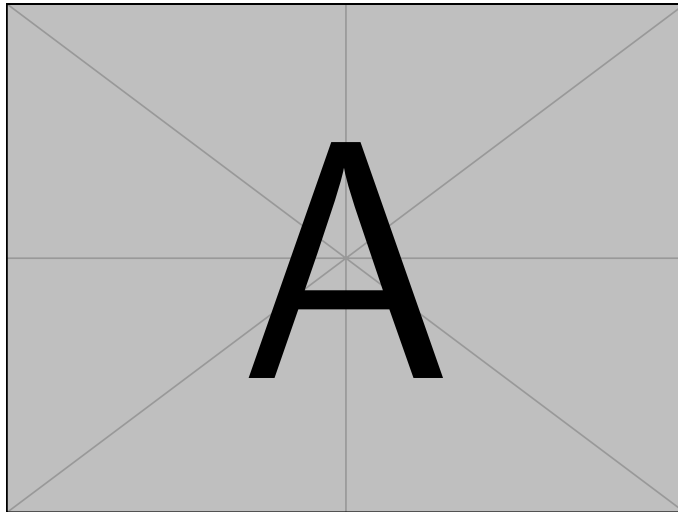
# Gauge Theories in Particle Physics

Willoughby Seago

January 16, 2023

These are my notes from the course gauge theories in particle physics. I took this course as a part of the theoretical physics degree at the University of Edinburgh.

These notes were last updated at 13:35 on January 15, 2023. For notes on other topics see <https://github.com/WilloughbySeago/Uni-Notes>.



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## Introduction

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This course follows on directly from the *Quantum Field Theory* course, so much of the relevant background is contained in those notes. It is also expected that students on this course will have taken *Symmetries of Particles and Fields*, and the prerequisite for that course, *Symmetries of Quantum Mechanics*, so for any group theory related topics see the notes of one of these courses.