

Introduction to Particle Physics Detectors

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Literature

- I am shamelessly reusing Ingrid Maria Gregor's materials from DESY Summer Student Program 2022
 - <https://indico.desy.de/event/35182/timetable/#20220719.detailed>
 - Excellent lectures on all sorts of particle physics topics
- Wermes & Kolanoski "Particle Detectors"
 - Available digitally via ORNL library network:
<https://search.ebscohost.com/login.aspx?direct=true&db=nlebk&AN=2503800&site=ehost-live>
- Particle Data Book: <https://pdg.lbl.gov/>
 - Free, all encompassing resource

General Things

- Today:
 - Basics
 - Particle Interactions with matter
 - Detector Systems
- Tomorrow:
 - Tracking detectors for momentum measurements
 - Silicon detectors
- Friday: Friederike Bock
 - Calorimeters for energy measurements