Sofie Nordahl Erner

From: Denmark (not Germany!)

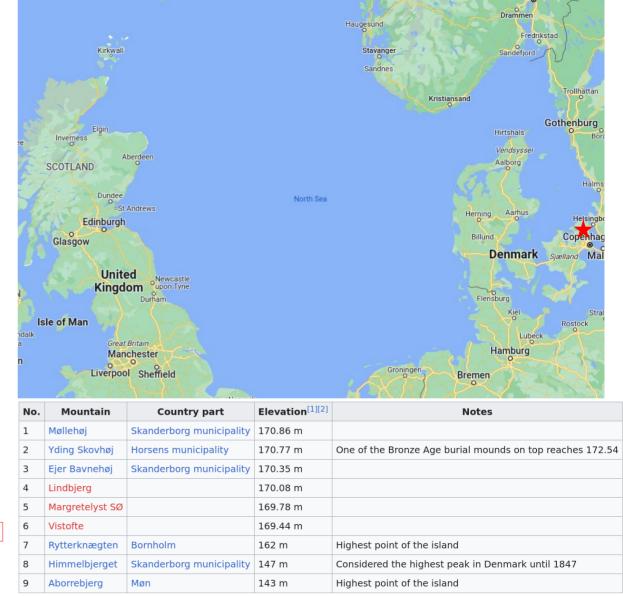


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Lowest highest point in Europe

| 32 | Steel Chited Kingdom | Ben Nevis ^[8] | 1,345 m (4,413 ft) |
|----|-----------------------|-------------------------------|--------------------|
| 33 | 🛨 Finland | Halti | 1,324 m (4,344 ft) |
| 34 | Ireland (Republic of) | Carrauntoohil | 1,041 m (3,415 ft) |
| 35 | c. Turkey | Mahya Dağı ^[9] | 1,031 m (3,383 ft) |
| 36 | Hungary | Kékes | 1,014 m (3,327 ft) |
| 37 | Netherlands (Saba) | Mount Scenery ^[10] | 887 m (2,910 ft) |
| 38 | 📥 San Marino | Monte Titano | 749 m (2,457 ft) |
| 39 | Belgium | Signal de Botrange | 694 m (2,277 ft) |
| 40 | Luxembourg | Kneiff | 560 m (1,837 ft) |
| 41 | Moldova | Bălănești Hill | 430 m (1,411 ft) |
| 42 | Belarus | Dzyarzhynskaya Hara | 345 m (1,132 ft) |
| 43 | Netherlands | Vaalserberg ^[10] | 321 m (1,053 ft) |
| 44 | Estonia | Suur Munamägi | 318 m (1,043 ft) |
| 45 | Eatvia | Gaiziņkalns | 312 m (1,024 ft) |
| 46 | 📕 Lithuania | Aukštojas Hill | 294 m (965 ft) |
| 47 | Malta | Ta' Dmejrek | 253 m (830 ft) |
| 48 | Denmark | Møllehøj ^[6] | 171 m (561 ft) |
| 49 | Monaco | Chemin des Révoires | 163 m (535 ft) |
| 50 | 😽 Vatican City | Vatican Hill | 75 m (246 ft) |
| | | | |



Sofie Nordahl Erner From: Denmark Undergrad: University of Glasgow PhD: Institute of Particle Physics Phenomenology (IPPP), Durham

PhD Beyond-Standard Model physics at Colldiers

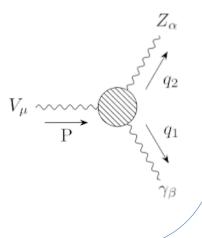
Supervisor: Martin Bauer



PhD

Beyond-Standard Model physics at Colldiers

- Neutral Triple Gauge Boson Couplings (NTGCs)
 - Find a new operator
 - Not energy, momentum, ø, etc.
 - Combination of the momenta
 - Improve exclusions limits for FCC-ee

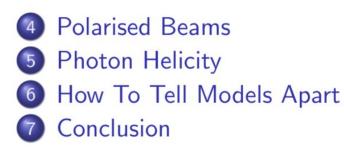


Goal

Measure the Spin of Dark Matter in $e^+e^- \rightarrow \gamma + X$ Processes

1 Process

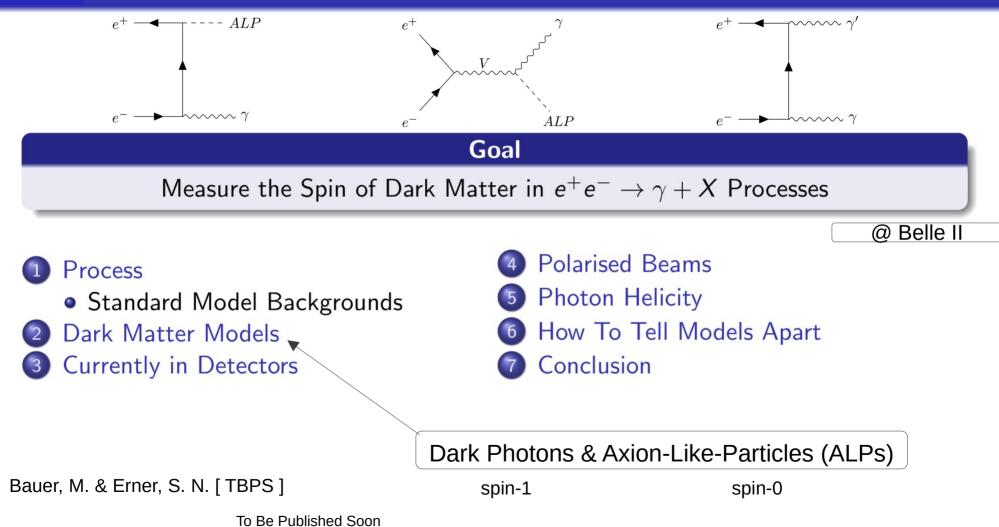
- Standard Model Backgrounds
- 2 Dark Matter Models
- 3 Currently in Detectors



Bauer, M. & Erner, S. N. [TBPS]

@ Belle II

Outline



PLANCK 2023

Sofie Nordahl Erner

PhD

Beyond-Standard Model physics at Colldiers

- Exclusion Limits for Neutral Triple Gauge Boson Couplings (NTGCs) at FCC-ee
- How to Measure the Spin of DM
- Combine the two above;
 - Use polarisation to distinguish NTGC
- AN Underground Belayed In-Shaft search experiment (ANUBIS) @ ATLAS
 - Searches for long-lived particles
 - Theory & Tech Support



Interests

• Fun Fact: Used to be a competitive fencer

- EDI group (Equity Diversity & Inclusivity)
 - Making physics more accessible and welcoming
 - We're the future, let's demand better

Go join your local EDI group or make one!