



# IJCLab ideas for AIDAinnova

Hadrien Grasland

2021-03-30



# Envisioned areas of contribution

- General Acts maturation and R&D
  - Adding, optimizing & validating a **Gaussian Sum Filter**
  - Removing roadblocks to **Belle 2** adoption
  - Working on **GPU support** (with a focus on SyCL)
- Machine learning R&D
  - Auto-tuning of **TrackML** algorithm parameters
  - **Detector layout** optimization

# To be discussed

- Many of these areas already received some work
  - Getting in touch to plan collaborations
- What AIDA-funded **postdoc profile** should we seek ?
  - Compute-focused → Will contribute most to GPU work
  - ML-focused → Synergy with fast calo sim (task 12.3)
  - Of course, depends also on the candidates we'll get...