



# AFRICA 125/5

**museum**

**IHE**  
**Annual**  
**meeting**

# NEWCOMERS



EDIC 125/5



IIHE  
Annu  
meeting

MERS





# Golnaz

Tehran, Iran

## Interests

- Lenni
- Design (product & interior)
- Chocolate making
- Playing violin
- DIY & tools
- Nature photography



Azzahra University

Bachelor

Physics



Lund University

Master

Engineering Nanoscience



SDU

Ph.D.

Organic solar cells



EPFL

Technical Specialist

Artificial retinal prosthesis



Neurosoft Company

R&D Engineer

Soft electronics, brain implants



VUB

Technical Engineer

CMS phase-2 tracker modules

# 2023 New comers – Pierre Dewulf



## What I did and do

- Arts & Métiers Graduated as an electronics technician.
- STIB/MIVB as technician team member we did a roll-out to impenete embedded PC on 1200 vehicules (trams and Buses).
- Start-up (Solidbot) I was responsible for the production autonomous CCTV solutions. And for technical interventions: in Belgium (SNCB), Germany (Securitas), Italy, Switzerland, and Serbia.
- IBZ & Belgian Emergency Radio Amateur Services, member of radio amateurs team on standby to deploy radio stations in case of prolonged power outages.
- Belgian Red Cross Member of the telecommunications support unit.

## What my hobby's are

- Electronics macking projects. Licenced Harec callsign ON9AD.
  - Backpack taveler, do Fly Fishing.
- Take Care of my cat « Electron ». And reading books.

IBZ : Intérieur Binnenlandse Zaken ou Service public fédéral intérieur.

HAREC : Harmonized Amateur Radio Examination Certificate.

# Gerrit Van Onsem

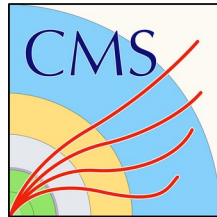


**PhD VUB**  
2010 – 2014



**Postdoc VUB**  
2014 – 2015

**Fellow at DESY**  
2015 – 2019



**Ma degree**  
VUB 2010



**Postdoc**  
VUB 2023

**Postdoc Uni. Rochester (USA),  
based at CERN, 2021 – 2023**

**Fellow at CERN**  
2019 – 2021



## Past research activities

- Searches for new quarks, new Higgs bosons, resonances, new physics with top quarks
- Jet flavor identification
- Event simulation

## Current activities

- Charm-Higgs coupling measurement
- Event simulation

## Hobbies and interests

- Music, e.g. playing percussion (proud (?) ex-member of IIHE band 2014)
- Hiking & nature
- Movies & series

# Paris Gianneios (Greece)



## Past

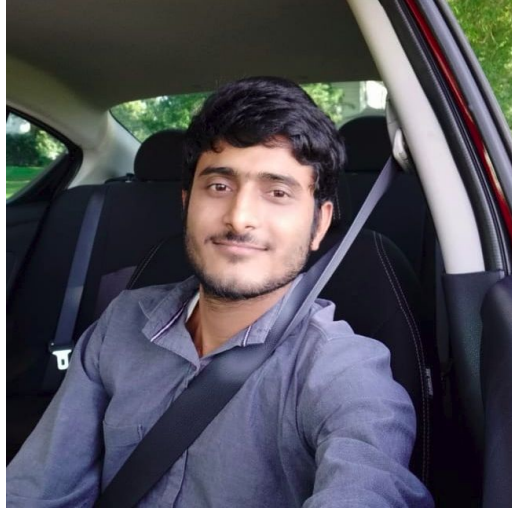
### PhD, University of Ioannina (Advisor: Panos Kokkas)

- **Main topic**  
*Studies of quantum chromodynamics with jets at the CMS experiment at the LHC. [Link to thesis](#)*
- **Contributions to physics analyses**  
SMP-16-014, SMP-20-011, SMP-21-008, SMP-21-009, SMP-22-005.
- **EPR**
  - Maintenance & development of DQM GUI for the CMS L1 Trigger.
  - Sherpa MC event generator: QCD and multijet production at the LHC.
  - Offline L1 Trigger (Prompt Feedback Expert & Trigger Expert Analyst) shifts.

## From 09/2023

### Post-doc, Université Libre de Bruxelles (Laurent Favart's group)

- **Main topic**  
*Measurement of the Drell-Yan multi-differential cross section at the LHC with the CMS detector.*
- **EPR**  
Jet Energy Calibration (L2L3 residuals) :  $\gamma$  + jets.
- **Other research activities**
  - Coordination of the new SMP-V analysis :  $BR(Z \rightarrow \mu\mu\gamma)$  at 13 TeV.
  - Phase-II tracker upgrade with IIHE CMS tracker team.



Name : **Alope Kumar Das**  
New Post-doc at ULB

I did my PhD from NISER, India. My thesis title was “Top Quark Analysis and Trigger Studies with CMS Run 2 Dataset & Outer Tracker Upgrade for HL-LHC”

Currently working in CMS Outer tracker upgrade project with Prof. Pascal Valnaer.

I am a fun loving person and love to hang out with friends. My hobbies are story book reading and travelling. I've just joined ULB in september. I'm already enjoying working here. Looking forward to have a more good time here and make some good memories.



- ▶ Born in Brussels in 1997;
- ▶ Former ULB student since 2022;
- ▶ Teacher in High School during last year;
- ▶ Now: working with Drell-Yan group at iihe !
  - ▶ Looking at  $M^{+l} > 10\text{GeV}$  at CMS.



Initially (end of highschool), wanted to go in physics to study astrophysics. Then saw the units they use. Logically, I wanted as less unit possible. Theoretical HEP (SUSY QCD) seems nice for that, but then I lacked some stable ground.

Here I am now, cool units and not going blindly!


Hobbies: cooking, video games, history, geography.





# Hello! Bonjour! Hallo! Soy Franco



- From Argentina! (Bariloche & Buenos Aires)
- 23 y.o., master thesis in Higgs phenomenology
- CMS, ULB side.  $Z' \rightarrow$  leptons search
- Under the command of Laurent and Barbara
- If not physics, trains and chocolate
- Someone needs a goalkeeper? 

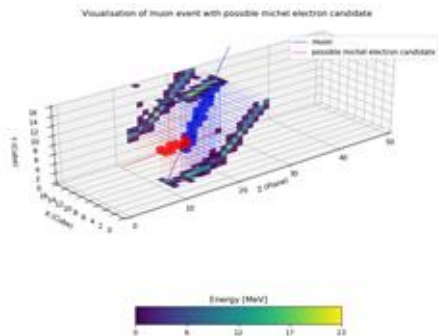


# Jas Bierkens



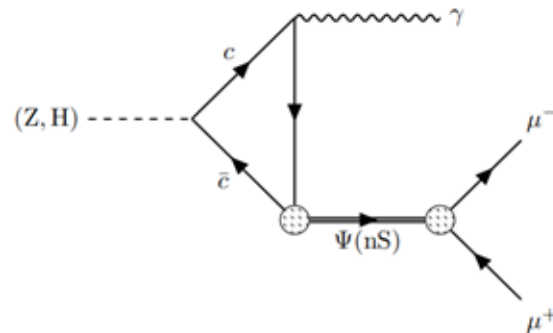
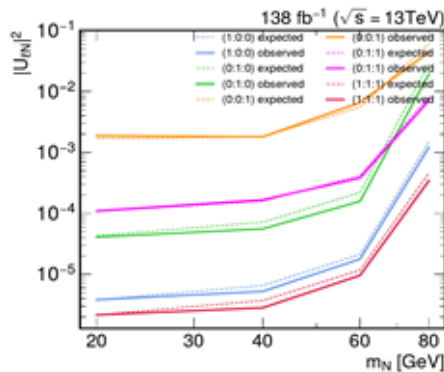
## Experience:

- Bachelor/Master @ UGent
- Bachelor thesis: Muons @ SoLid
- CERN Internship: iRPC for phase-2 LHC
- Master thesis: non-minimal HNL scenarios



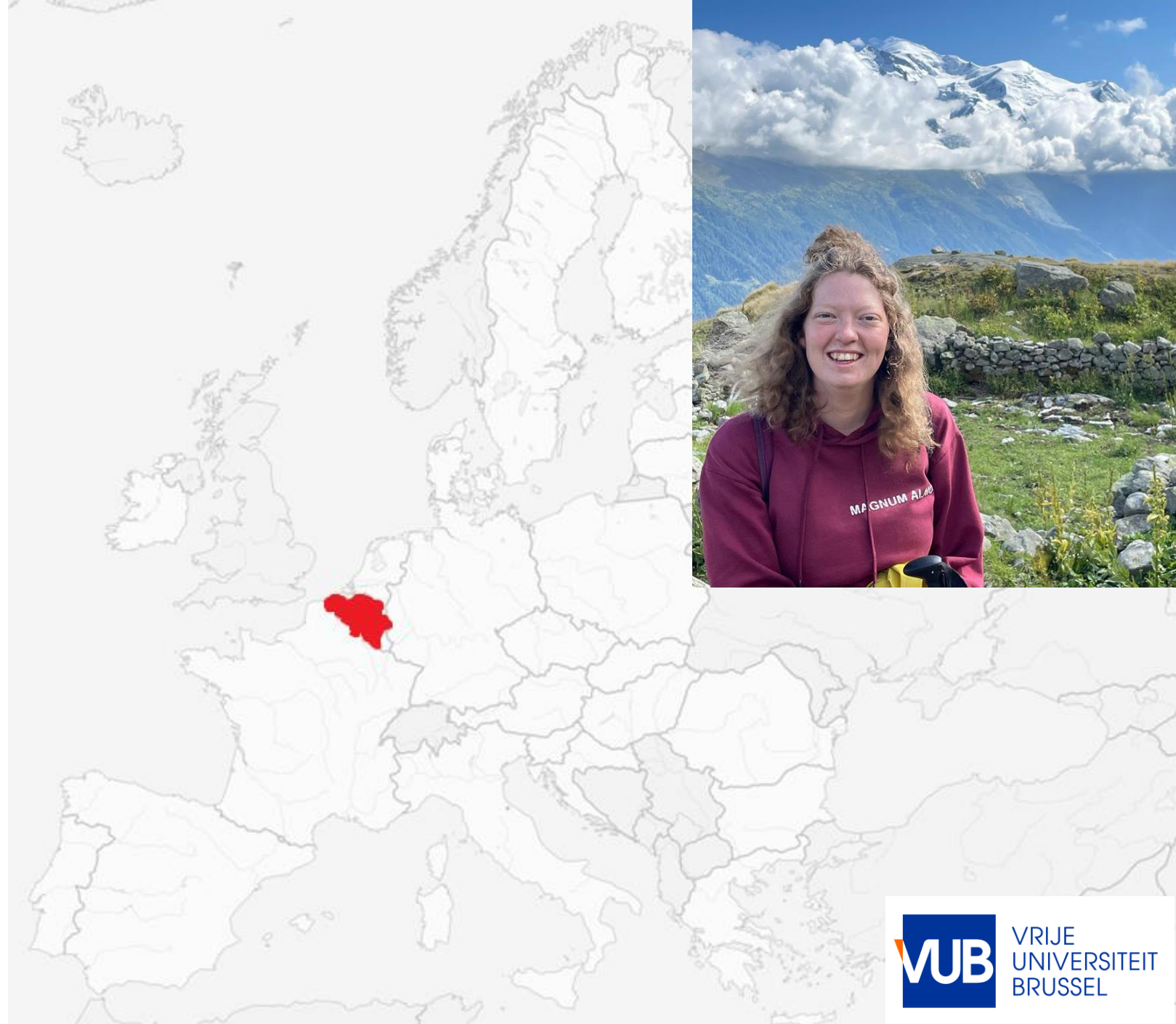
## Current research:

- PhD with prof. S. Lowette
- $H \rightarrow J/\psi + \gamma / Z$ 
  - $\text{Br}(H \rightarrow J/\psi + \gamma / Z) \sim 10^{-7}$
- Background control vital
- Probe of Higgs-charm Yukawa



# Else Magnus

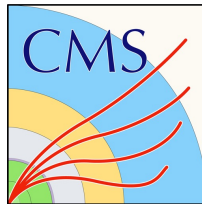
- PhD student (VUB)
- IceCube
- Research focus:
  - Investigation of turbulent GRB outflow characteristics with Fermi data.
  - Search for sources of the IceCube alert events.



# Juhee Song

- 📌 Joint PhD student (Hanyang Univ., South Korea)
- 📌 Past activities:
  - Deep neural network algorithm development for TTbar event & jet combination classification
  - ttbb differential cross section measurement
- 📌 Present research subject:
  - ttcc cross section measurement
- 📌 Hobbies:
  - Travelling
  - Sports & Dancing

I love



# Ruben Camphyn

**Project:** RNO-G: development of noise and event filtering, RADIANT boards



## Background:

- Ba Thesis: IceCube correlating GRB and neutrino events
- Ma Thesis: Superconducting domain walls
- Electives: radio astronomy, astrophysics, coding

## Hobbies:

- Climbing
- Football
- Drawing
- Cooking



# Abby Bishop



3rd year Graduate Student from UW-Madison (w/ Albrecht Karle)

v Working with Simona and Nick on ice radio neutrino experiments:

- o Askaryan Radio Array
- o Radio Neutrino Observatory in Greenland



At IIHE until September 2024 via BAEF fellowship



Hobbies: my cat, nature, baking



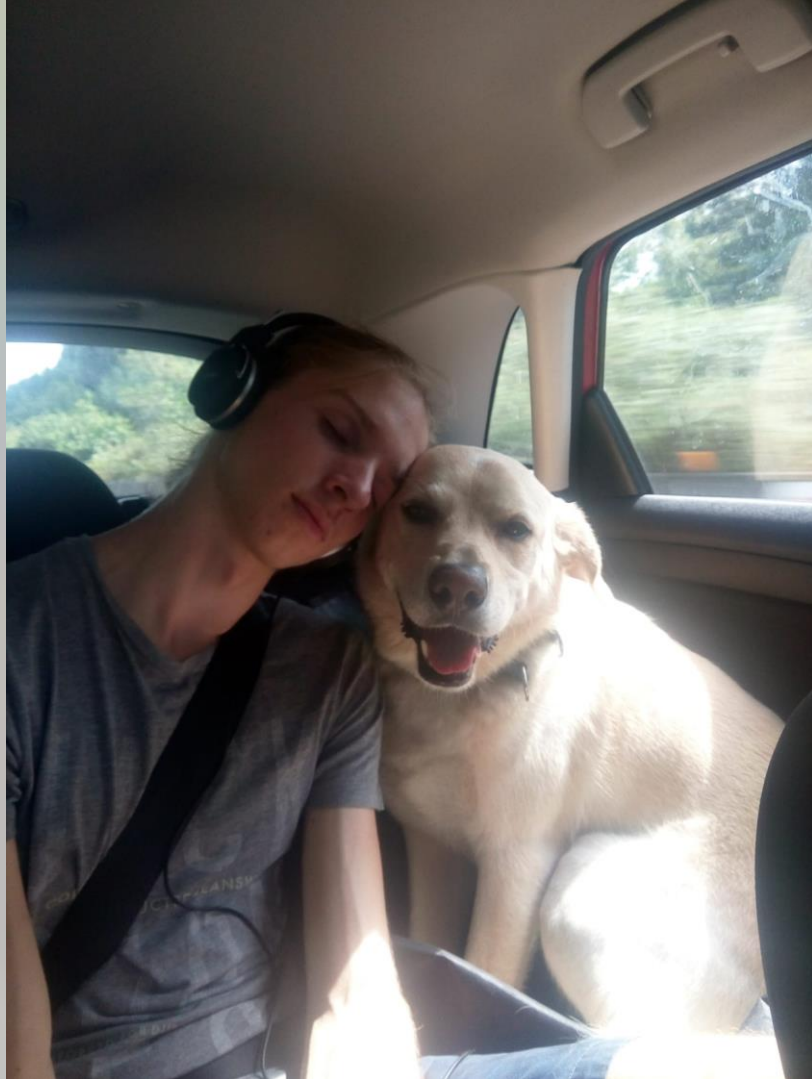
# JANNES LOONEN

## MASTER STUDENT

- ▶ Second year master student at VUB
- ▶ Doing Master thesis with RET collaboration
- ▶ Investigating signal properties of simulated neutrino induced particle cascades in ice using the MARES software for future RET-N experiment



## Nicolas Moller



Nationality : French

ULB – Master2

Other languages :English, Japanese

### Past internships :

- 2022 - IceCube-GEN2 (with Simona Toscano)
- 2022/2023 – CMS GE11 (with Gilles De Lentdecker)
- 2022/2023 – Pulsars magnetic field (with Nicolas Chamel)

### Currently working on :

- Master thesis with Simona Toscano and Krijn De Vries  
+ Simon De Kockere and Abby Bishop

### **Simulations!!**

- Air showers
- Propagation into the South pole ice
- Produced radio emission (both)

→ **Apply to ARA!**

### Hobbies :

- Music (drum)
- Sport (jogging, hiking, martial art, ...)
- Write (fantasy stuff)

### Future :

- Astroparticle → Phd (here?)

### Other interests :

hadronic models, BSM, QFT, neutrino oscillations, ...