

Nikhef



WG5 INTRODUCTION AND UPDATES

Kārlis Dreimanis, [Flavia de Almeida Dias](#) and Richard Ruiz

on behalf of COMETA WG5 and Science Communication

WG5 - INCLUSIVENESS AND OUTREACH



"Encouraging public awareness of fundamental research in particle physics.
Improving gender balance of the field. Implementation of inclusion policies."

— COMETA MoU

WG5 leaders: Kārlis Dreimanis and
Flavia de Almeida Dias

**Science Communication
Coordinator:** Richard Ruiz

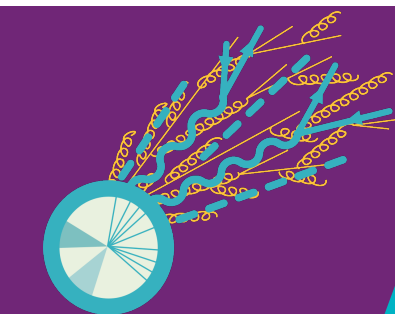
Wiki

Mattermost

Twitter/ X: @multibosons

Youtube: @multibosons

egroups: 60 members



Outreach

Engage and communicate the public about the motivation and outcomes of COMETA: communication (public), dissemination (scientific community) and valorisation (societal, economic, policy impact).

Inclusiveness

Monitor and ensure diversity and inclusion in the action: geographical spread (Inclusiveness Target Countries), gender balance, and career stage.

DELIVERABLES

6 months: due mid-March 2024

D5.3 Science Communication Plan

- First version for approval in the next MC meeting
- Detailed discussion at the dedicated session on Thursday at 17h00

Science Communication Plan of the COST Action CA22130 - COMETA

Each Action MC shall adopt a Science Communication Plan including a communication, dissemination, and valorisation strategy, as well as a plan to implement this strategy. The Science Communication Plan shall reflect the MoU in particular connecting to the aims and objectives of the Action. It is recommended that the Science Communication Plan is approved by the Management Committee not later than 6 months after the start date of the Action. It is recommended that the Science Communication Plan, including progress on implementation, is discussed on a yearly basis by the Action MC and reviewed or amended where necessary. (*Annotated Rules for COST Actions, article 5*)

This template is provided to COST Actions as a support for developing the Action Science Communication plan. Actions can adapt the plan structure and content according to their needs.

DELIVERABLES

12 months: due mid-September 2024

- D5.1 Periodic review of the effectiveness of inclusion, diversity and gender policies
- D5.2 Material for outreach on the public website of the Action and social media

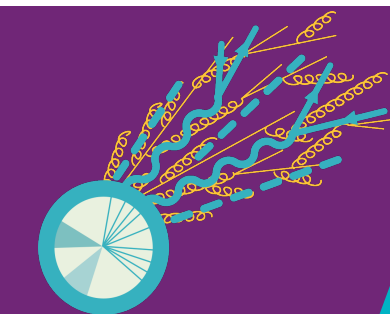
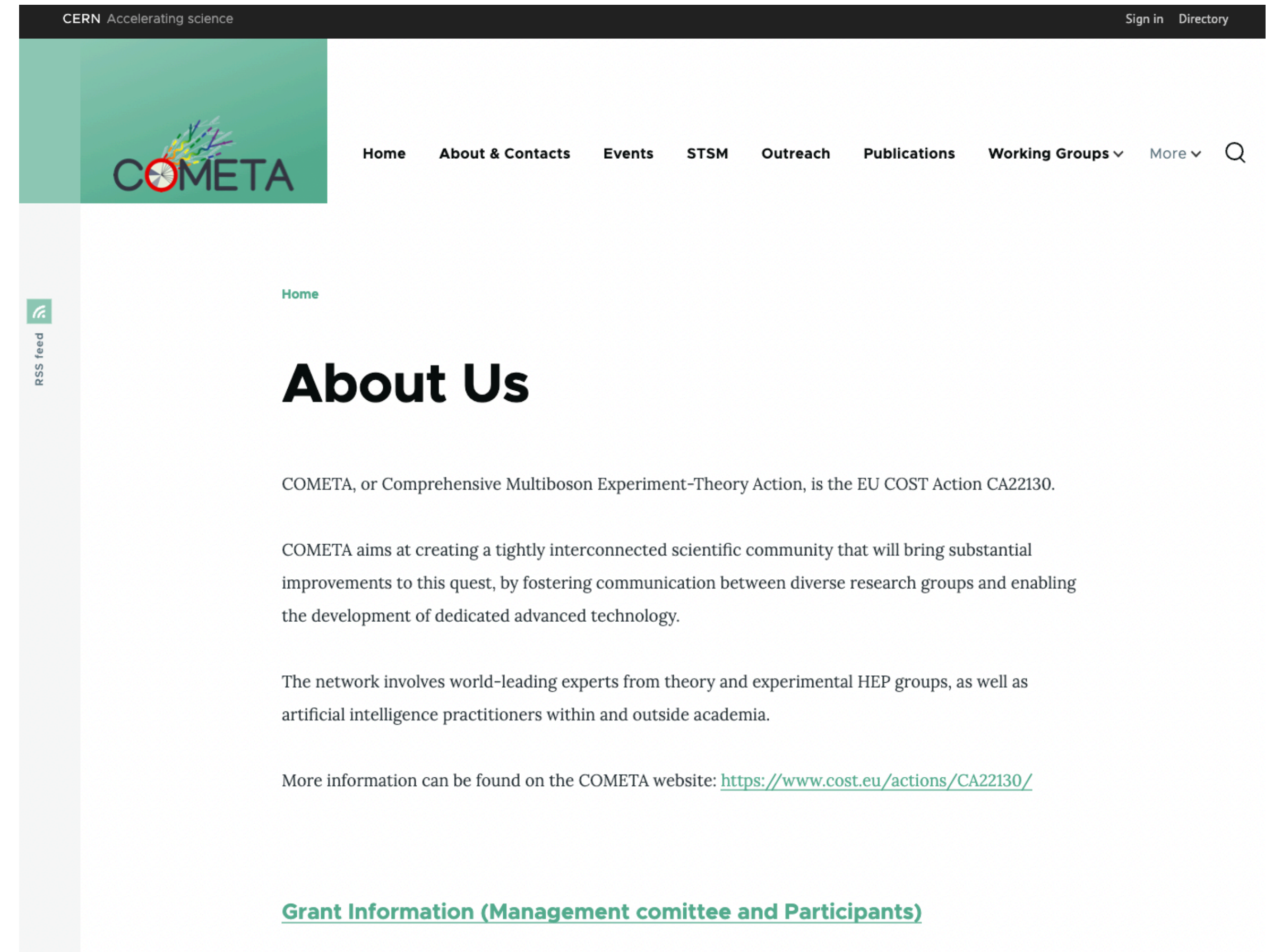


WEBSITE



<https://cometa.web.cern.ch/>

- Focal point to communicate with experts, non-experts and general public
- Current sections:
 - Home
 - About & Contacts
 - Events
 - STSM
 - Outreach
 - Publications
 - Working groups



PUBLICATIONS

Database: all publications produced by members with scientific pertinence with COMETA's goals.

- Papers, proceedings, report, thesis, talks at conferences, posters, outreach talks

Instructions for acknowledgements, requirements, and getting a COMETA-202X-XX numbers in the Wiki

[Home](#)

Publications

Most papers are available on the ArXiv by searching using the [report number identifier COMETA](#)

1. **NLO EW corrections to polarised $W+W^-$ production and decay at the LHC**, A. Denner et al, <https://arxiv.org/abs/2311.16031> (COMETA-2023-01)
2. **Measurement and interpretation of same-sign W boson pair production in association with two jets in pp collisions at 13 TeV with the ATLAS detector**, ATLAS Collaboration, <https://arxiv.org/abs/2312.00420> (COMETA-2023-02)
3. **Functional renormalization group for signal detection and stochastic ergodicity breaking**, H. Erbin, et al, <https://arxiv.org/abs/2310.07499> (COMETA-2023-03)
4. **Probing Higgs-muon interactions at a multi-TeV muon collider**, E. Celada, et al, <https://arxiv.org/abs/2312.13082> (COMETA-2023-04)
5. **Polarized ZZ pairs in gluon fusion and vector boson fusion at the LHC**, M. Javurkova, et al, <https://arxiv.org/abs/2401.17365> (COMETA-2024-01)

COMETA NEWSLETTER



- Summary of key happenings in COMETA
- Publications, upcoming events, job openings, advertisements for grants and abstracts
- Monthly frequency
- Send information you want added to the newsletter editors (Joany Manjarres Ramos and Toni Šćulac)

A preview of the COMETA Newsletter cover for January 2024, No 1. The cover features the COMETA logo at the top left, the date "JANUARY 2024, No 1" at the top right, and the title "COMETA Newsletter" in a large, stylized font. Below the title is a horizontal line, followed by a welcome message, a "Publications" section with a list of four research papers, and an "Upcoming COMETA events" section with one event listed.

COMETA
Newsletter

JANUARY 2024, No 1

Welcome to our newsletter where we try to summarise all the **key happenings** in the **COMETA action**. While our beautiful website is being prepared, make sure to check out our [TWIKI](#) for more detailed information.

Publications

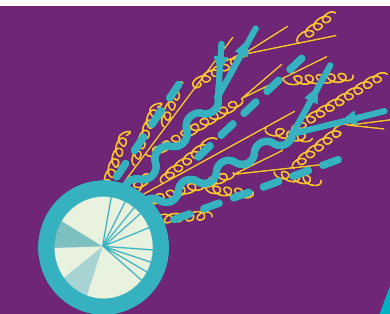
Since the start of COMETA we have already published **four research papers**:

- "NLO EW corrections to polarised W^+W^- production and decay at the LHC", A. Denner; C. Haitz; G. Pelliccioli, [arXiv:2311.16031](#)
- "Measurement and interpretation of same-sign W boson pair production in association with two jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", ATLAS Collaboration, [arXiv:2312.00420](#)
- "Functional renormalization group for signal detection and stochastic ergodicity breaking", Harold Erbin; Riccardo Finotello; Bio Wahabou Kpera; Vincent Lahoche; Dine Ousmane Samary, [arXiv:2310.07499](#)
- "Probing Higgs-muon interactions at a multi-TeV muon collider", Eugenia Celada; Tao Han; Wolfgang Kilian; Nils Kreher; Yang Ma; Fabio Maltoni; Davide Pagani; Jürgen Reuter; Tobias Striegl; Keping Xie, [arXiv:2312.13082](#)

If your publication is not in the list and you think it should be, make sure to check our [TWIKI](#) for more information on how to get it there!

Upcoming COMETA events

- 1st COMETA General Meeting, Izmir, Turkey, 28.2. - 1.3., [indico.cern.ch/1334055](#)



COLLOQUIA SERIES

- **Virtual colloquia:** inter-WG activity, interesting and understandable for the whole community
- Monthly, topics rotating between WGs
- High-profile speakers
- Zoom seminar mode + YouTube live-streaming and uploads

WE NEED TWO COORDINATORS



OUTREACH EVENTS

Coupled to all COMETA meetings

- Planned in advance with local organisers
- Hybrid between informative and fun!

JOIN US TODAY AFTER THIS SESSION!

Wednesday, February 28, 2024

Conversation with CERNies

Meet the Physicists working on CERN activities

Ask your questions and find out more about research at the LHC.

We are multi-lingual: questions in many languages welcome!

Get rewarded for your questions with some snacks after the event!

Alessandra Cappati // *École Polytechnique*

Arnaud Ferrari // *Uppsala University*

Aysel Kayis Topaksu // *Çukurova University*

Claudius Krause // *Austrian Academy of Sciences*

Flavia De Almeida Dias // *NIKHEF*

Giovanni Pelliccioli // *Max-Planck Institute for Physics*

Ilaria Brivio // *University of Bologna*

Kadri Özdemir // *Izmir Bakırçay University*

Karlis Dreimanis // *Riga Technical University*

Karolos Potamianos // *University of Warwick*

Matteo Presilla // *Karlsruhe Institute of Technology*

Pietro Govoni // *Università Degli Studi Di Milano-Bicocca*

Ramona Groeber // *University of Padova*


Riccardo Finotello // *CEA Paris-Saclay*


Richard Ruiz // *Institute of Nuclear Physics PAN*

Valentina Cairo // *CERN*

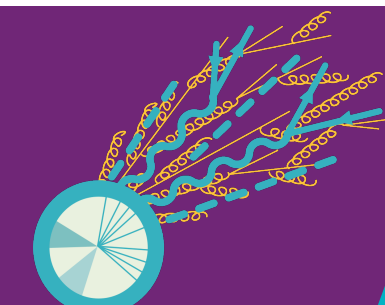
COMETA

Contact: **Kadri Özdemir**

 **Wednesday, February 28, 2024**

 **18.00-19.00**

 **E Block Cinema Hall**



SOCIAL MEDIA REACH

28 day summary with change over previous period

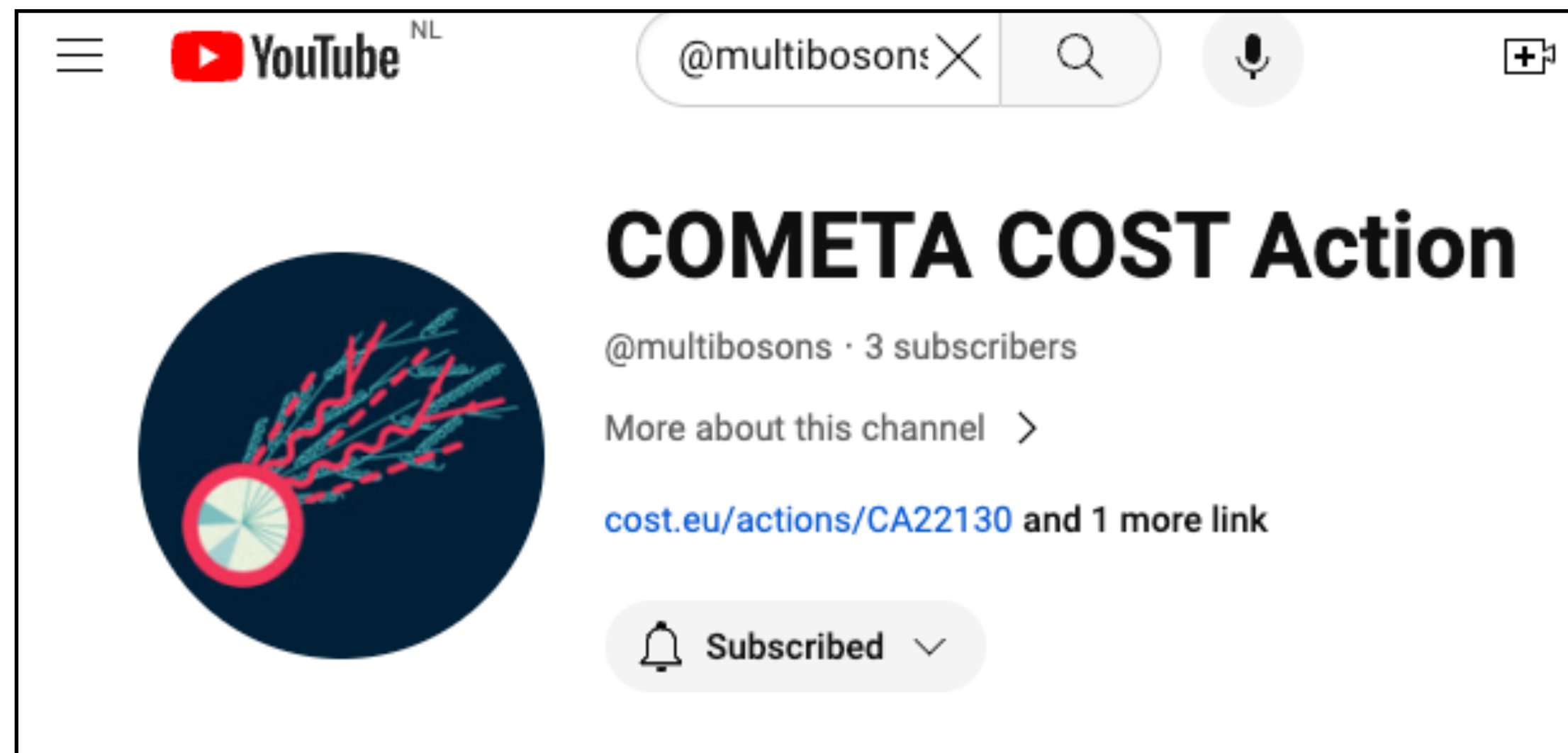
Post impressions

1,611 ↑ 145.6%



Followers

60



YouTube NL

@multibosons

COMETA COST Action

@multibosons · 3 subscribers

More about this channel >

cost.eu/actions/CA22130 and 1 more link

Subscribed



COMETA

55 posts

COMETA

@multibosons

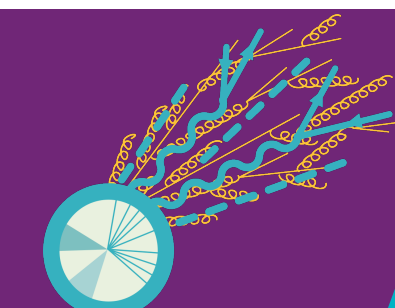
Outreach account for #COMETA: Comprehensive #Multiboson Experiment-Theory Action (🇪🇺 Cost Action CA22130)

We do science, 🌶️🌶️🌶️ science!

Geneva [cost.eu/actions/CA2213...](https://cost.eu/actions/CA22130) Born September 18, 1988

Joined August 2023

44 Following 60 Followers



SHORT INTERVIEW CLIPS

Multi-lingual short interviews promoting COMETA activities to the audiences of all countries represented by the Action

- Prepared questions, short answers
- Showcase the science and the scientists in our group

TALK TO US THIS WEEK!

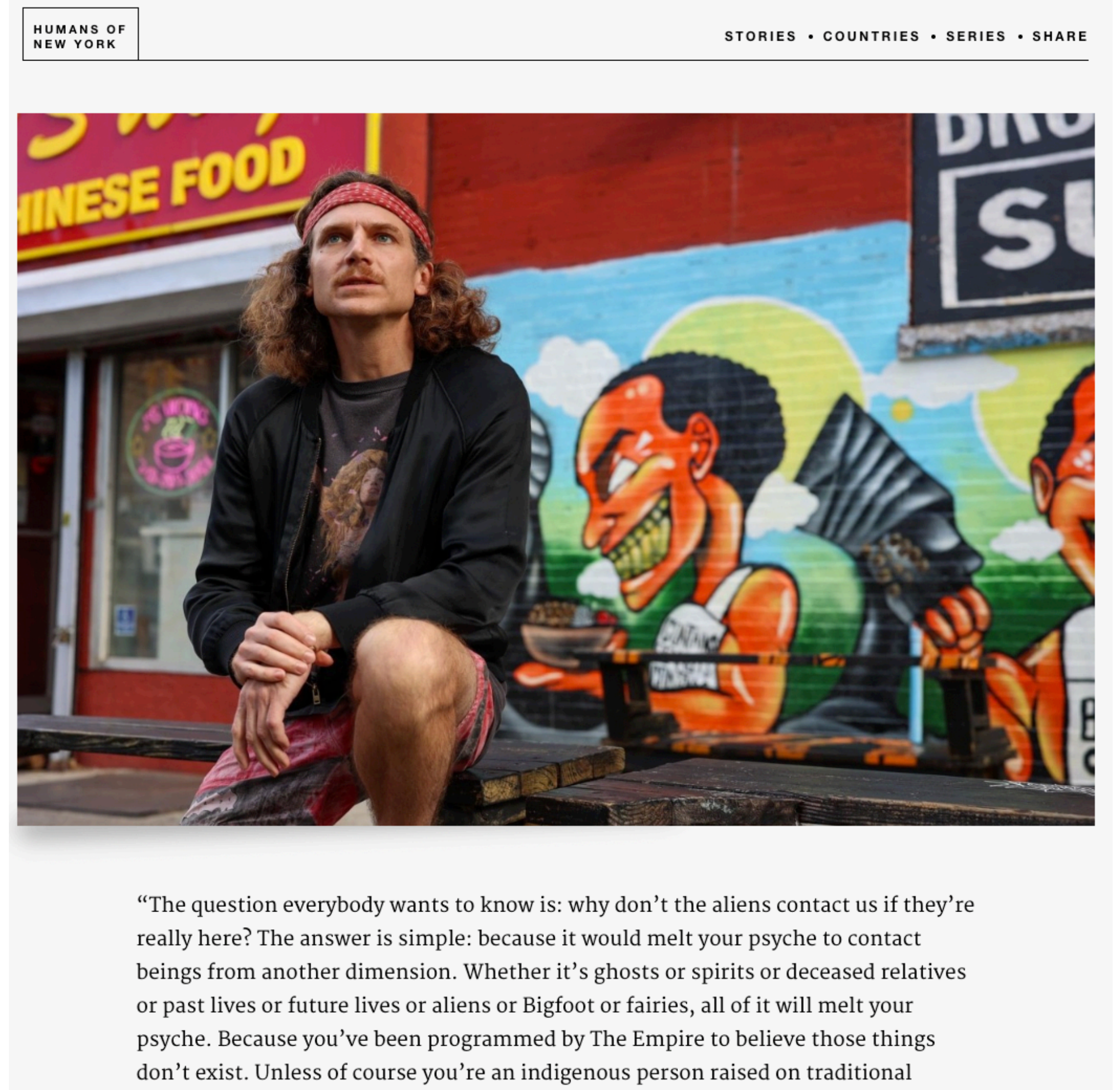


PROFILE OF RESEARCHERS

AKA “Humans of COMETA”

- Highlight researchers in short-form interviews
- Special attention to a diverse selection (gender, career stage and geographical location)
- English and native language
- Photos can be diverse (not limited to portraits)

TALK TO US THIS WEEK!



DIVERSITY STATISTICS - STSM GRANTS

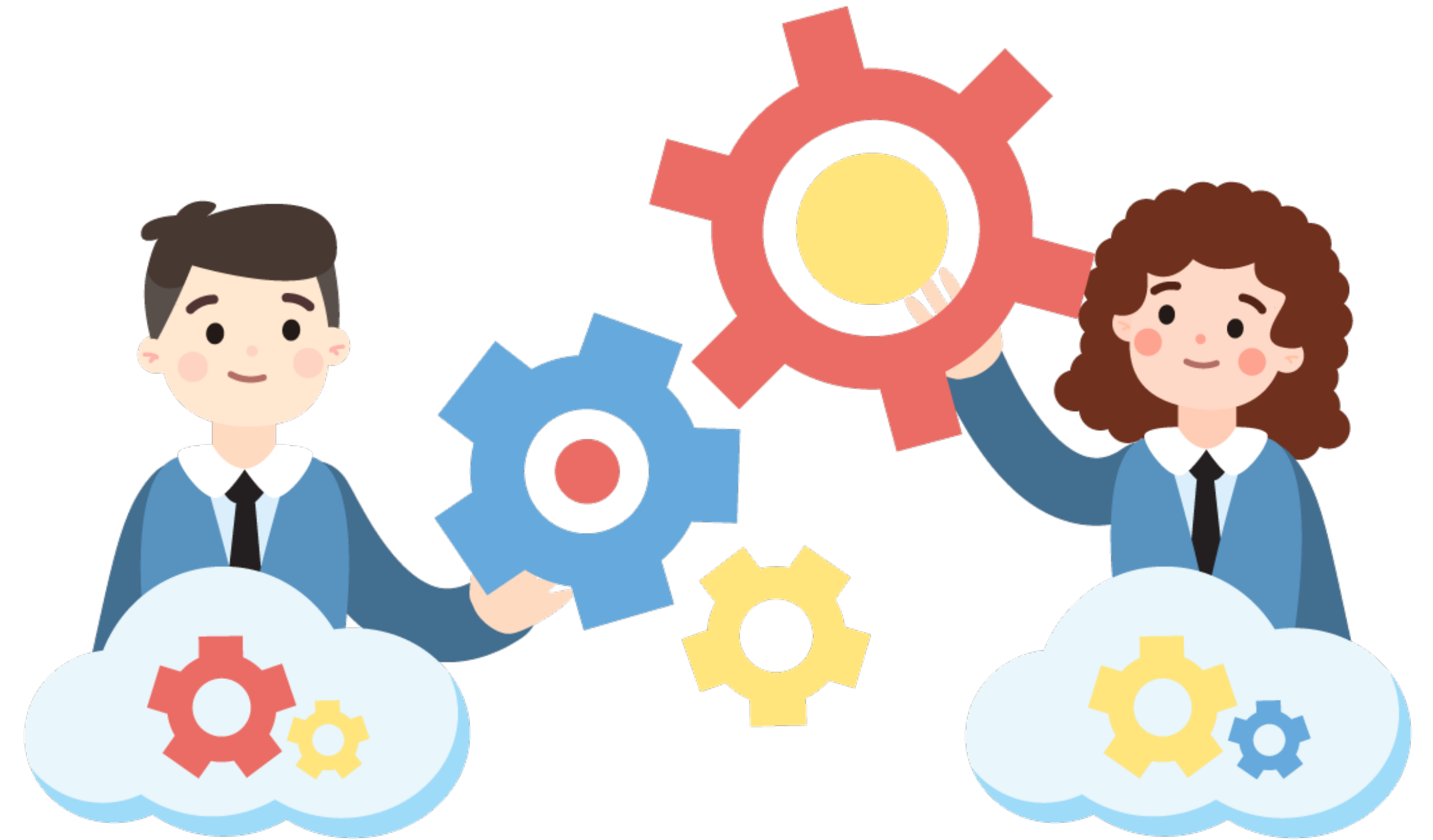
approved grants: 12

women*: 4 (33%)

ITC countries:

- from ITC: 5 (41.6%)
- to ITC: 2 (16.6%)
- non-ITC to non-ITC: 5 (41.6%)

Young researchers: 7 (58.3%)



DIVERSITY STATISTICS

1ST GENERAL MEETING

registered participants: 58

women*: 17 (29.3%)

ITC members: 19 (32.8%)

Young researchers: 44 (75.9%)

1st COMETA General Meeting

28 February 2024 to 1 March 2024
İzmir, Türkiye
Europe/Istanbul timezone

Enter your search term

Overview

[Timetable](#)

[Call for Posters](#)

[Contribution List](#)

[Registration](#)

[Participant List](#)

[Videoconference](#)

[Accommodation](#)

[Free guesthouse for students](#)

[COST Reimbursement](#)

[Venue Information](#)

[Lunch and Dinner Information](#)

[Practical Information](#)

[Code of Conduct](#)

Contact

[✉ kadri.ozdemir@bakircay...](mailto:kadri.ozdemir@bakircay...)

[☎ +90 543 575 0965](tel:+905435750965)



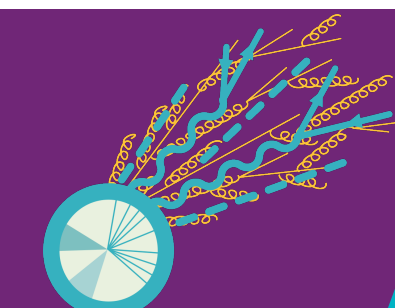
COMETA (C**OM**prehensive Multi**BO**son Experiment-Theory Action) is a COST Action devoted to improving measurements of multi-boson production processes at the LHC and their interpretation.

It brings together theorists, experimentalists and Machine Learning experts, with the goal of creating a tightly interconnected community that can boost the development of innovative approaches to multi-boson measurements.

It also aims at creating an inclusive and informal environment, where young scientists and researchers based in underfunded european countries can gain international visibility.

COMETA promotes a very broad scientific program including

- BSM/EFT interpretation of multiboson measurements
- precise SM predictions and event generation (MC+PS) for multiboson production processes
- development of theory and tools to measure signals with polarised W and Z bosons
- development of advanced Machine Learning tools in collaboration with professional ML practitioners
- combined analyses of multiboson processes (H, HH, VV, VVV, VBS...) within the experimental collaborations

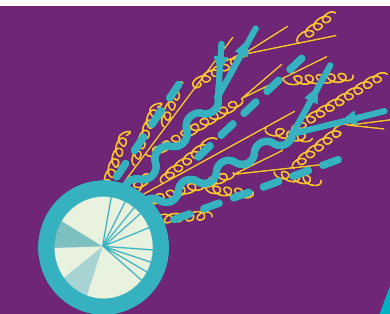


CODE OF CONDUCT



COMETA includes members with varied national origin, ethnic background, race, gender identity, sexual orientation, gender, age, physical ability, and religion. As a community, we are **committed to being positive and inclusive in all regards.**

Members of COMETA must maintain a professional environment in an atmosphere of tolerance and mutual respect and abstain from all forms of harassment, abuse, intimidation, bullying, and mistreatment of any kind. This includes, but is not limited to, intimidation, sexual or crude jokes or comments, offensive images, and unwelcome physical conduct. Members must keep in mind that behaviour and language deemed acceptable to one person may not be to another.



LOOKING FORWARD

Continue work towards our goals!

- Thanks to everyone who have contributed so far!

To be implemented:

- Final report from STSMs in a general public language (similar to physics briefings from collaborations)
- Have pronouns field in the registration form for meetings





COMETA

THANK YOU!

