## LHCP 2024

# **Diversity & Inclusion Initiatives by the Experiments**

Steven Goldfarb, University of Melbourne, ATLAS Collaboration steven.goldfarb@cern.ch

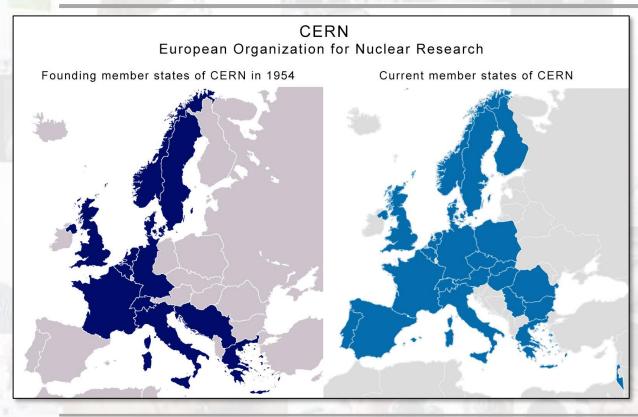
## In the beginning...



Groundbreaking at current CERN site in Meyrin, Switzerland, 1954.

Third session of the CERN Provisional Council, October 4, 1952, in Amsterdam.

## Trans-European / International Diversity



#### Sept 1954 (12 countries)

Belgium, Denmark, France, the Federal Republic of Germany, Greece, Italy, the Netherlands, Norway, Sweden, Switzerland, the United Kingdom and Yugoslavia

#### Today (23 countries)

Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Israel, Italy, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovak Republic, Spain, Sweden, Switzerland and United Kingdom.

#### Associates in pre-stage to Membership: Cyprus, Estonia, Slovenia

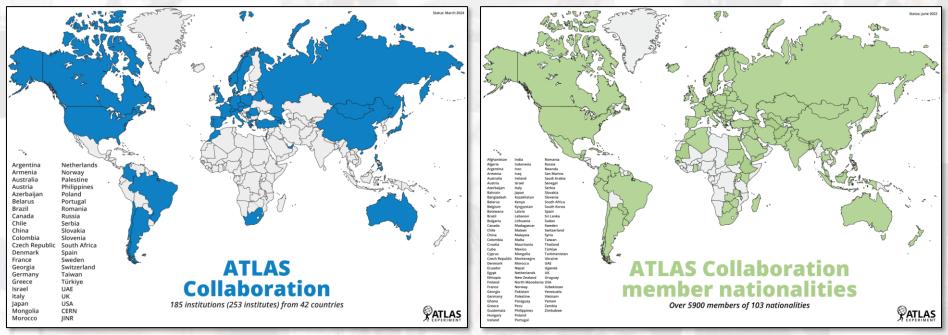
#### Associate Members:

Brazil, Croatia, India, Latvia, Lithuania, Pakistan, Türkiye and Ukraine

Observers: Japan, USA, EU, UNESCO

## International Diversity of the LHC

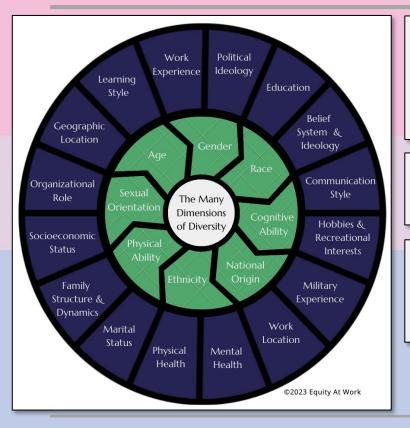
#### **Example of ATLAS Collaboration**



185 Institutions (253 institutes) from 42 countries (2022)

Over 5900 members of 103 nationalities (2022)

## But there are many more dimensions...



#### **Diversity**

The presence of differences within a given setting. In the workplace, that can mean differences in race, ethnicity, gender, gender identity, sexual orientation, age and socioeconomic class. It can also refer to differences in physical ability, veteran status, whether or not you have kids, etc.

#### <u>Equity</u>

The process of ensuring that practices and programs are impartial, fair and provide equal possible outcomes for every individual.

#### **Inclusion**

The practice of ensuring that people feel a sense of belonging in the workplace. This means that every employee feels comfortable and supported by the organization when it comes to being their authentic selves.

## Why is this important for our field?

#### Fairness

• We are publicly funded; all who want to participate ought to have the opportunity

#### Need

Science benefits from input based on a variety of viewpoints

#### Practicality

You don't make stringent cuts when looking for rare processes

"The diversity of the scientific community helps facilitate specialization and provides different points of view that lead to diverse investigations, invigorate problem solving, and balance biases."

U.C. Berkeley Study

"Diversity is an asset of humanity, it's our richness, and we have to use it in the best possible way."

Dr. Fabiola Gianotti

"Without deviation from the norm, progress is not possible."

Frank Zappa

# Initiatives of the LHC Experiments



## LHCb



## LHCb

#### Early Career, Gender and Diversity Office (ECGD)

- ECGD Officers: 2-year terms, senior(ish)
  - Run the office
  - Deal with confidential matters
- EC Representatives: elected by EC community
  - Listen to and report needs of EC community
  - Meet with EC reps from other experiments
  - One Rep sits in on CB meetings

#### **ECGD** Meetings

- Plenary talk at every LHCb Week, topics:
  - Mentoring, Paternity/maternity leave, Career options outside HEP, Career paths inside HEP, Sexual harassment, Women in STEM, Representation of "young" people in the collaboration, Working from home during a pandemic, Mailing lists, Accessibility & support for colleagues with physical disabilities, Geographical representation of responsibilities, Work/Life balance, Mental health, Climate, ...





Will Barter

Sneha Malde





Guillaume Pietrzyk

Lorenzo Paolucci

# LHCb

#### Participation in CERN-wide activities

- Soft skills workshop
- Mentoring@CERN (now integrated with WIT)
- LHC career events

#### Liaising with other collaborations...

• For example, through the CERN D&I Roundtable

#### The Laura Bassi Initiative

LHCb Early Career	, Gender and Diversity Office	
News & upcoming events	What are we here for?	Contact
	To quote from the LHCb constitution.	
(last updated Feb 2023) 17 February 2023 Next Coffee with event, Tuesday February 21	The Early Career, Gender and Diversity (ECGD) Office oversees the well-being and working environment of all LHCb members.	For general ensempt to the desployment, which is the desployment of the desployment to the desployment of the desployment to th
The registration for the next "Collies with" events is one open. This is an opportunity to spend half an hour chatting with nice people, some of shorm you might have never met othermise. It will fails place next Tursday, ficturer 2 Jak, between 13:30–14:00 CET (right baffere the Tursday in the place is the Tursday in the place is the the Tursday in the place is the the	We are here for all inserts related to gender and diversity and to the needs of our companys at an analyzing rest rate, its particular, we due with human stretched to any relation of the stretched of the stretched of the stretched of the stretched ethnicity, deability, crees, obtained background or other factors. Rease contact of you have supervised on threaded any type of activity and the stretched on the stretched to any stretched of the stretched of the stretched of the stretched of the supervised backwards with the LUCS Code of Conduct. We guarantee absolute company of the stretched of the stretched of the stretched of the stretched of the company of the stretched of the stretched of the stretched of the stretched of the stretched of the stretched of the stretched of the st	
https://mdico.cem.ch/sent/1255579/ by Monday exempting (Just before the event) at the latest. We take the list of all registrations, split if "randomly" listo mail groups of participants and assign each group to a separate zoem room. Ve'll send you the link to your zoom room on Tuesday merning. We hope to see you there with us!	us to interest rener, sentes and resources. Who are wee? The ECOD office is composed of two senter ECCD officers, Souha Malda and Will Barter and two and uncernargeneous tensors. Configuration Marries and Will Barter <b>ECCO officers</b> The two ECCD officers are appointed into a law-year term by the LinCL's managements and indicated by the Calcimate Appointed Darkers are usually "second-in membrane" membrane of the Calcimate and the Calcimate Appointed Darkers are usually "second-in membrane" membrane of the Calcimate Appointed Darkers are usually "second-in membrane" membrane of the Calcimate Appointed Darkers and the Calcimate Appointed Appo	
Survey on Early-Career positions	the collaboration, with long-term work contracts, to make sure we can act independently and are not easily intimidated.	
The anonymous survey on early-career position experiences is still open:		
https://forms.office.com/r/92/UXSciwe The idea is that answers will be shared in slides at the next ECGD session, dedicated to academic career advice for early-career researchers. There is also		

 The Laura Bassi initiative was set-up in 2019 to bring together LHCb colleagues interested in tackling the underrepresentation of women in HEP, to promote discussion and ideas on related issues and to provide an informal network to colleagues. While the group is aimed primarily at junior women and under-represented genders it is open to anyone interested in tackling issues of underrepresentation in HEP. Meetings are held during collaboration weeks. While the Laura Bassi initiative is independent of the LHCb ECGD office, with a focus on junior-led initiaves, the two groups often discuss similar topics.

S. Goldfarb - LHCP, Boston, 3 Jun 2024



#### CMS Diversity & Inclusion Office

Founded in 2017 with the goal of fostering a working environment where all members of the Collaboration can thrive and bring in their talents

https://twiki.cern.ch/twiki/bin/view/CMSPublic/CMSDiversityOffice

#### Mandate

- advise management and individuals on diversity related matters
- propose actions to promote diversity and create awareness
- monitor and record statistical information related to diversity
- actively listen to Collaboration members' concerns
- report regularly to the Collaboration about status and progress of diversity-related issues
- collaborate with relevant bodies outside CMS such as the CERN Diversity & Inclusion Program











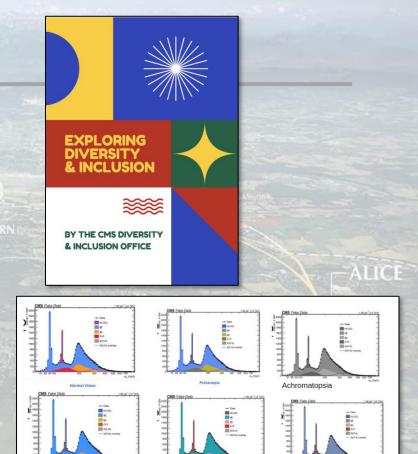




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## Activities

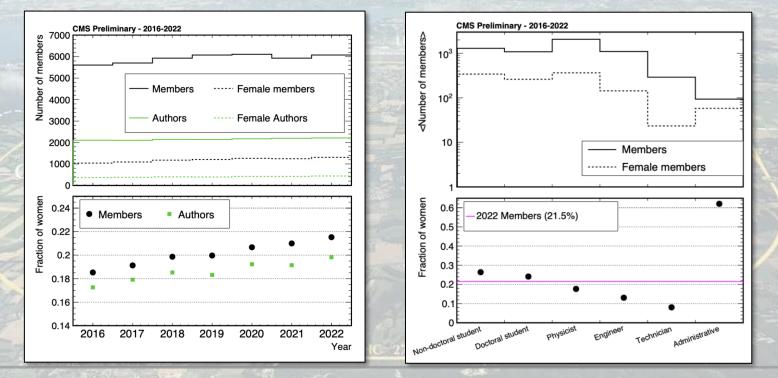
- Collaborate with Outreach & Communication group to give ideas and create content for people inside and outside the collaboration
- Participation in
  - LGBTQ+ STEAM Day (18th November 2022)
  - International Day of Women and Girls in Science (11th February 2023)
    - <u>https://cylindricalonion.web.cern.ch/blogs/cms-women-science</u>
- CMS Handbook
  - https://heyzine.com/flip-book/00f6546b1c.html
- CMS Colour Palettes (for CVD)
  - <u>https://cms.cern/news/cms-collaboration-sets-</u> <u>standard-inclusivity-colour-vision-deficiency-friendly-</u> <u>palettes</u>



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Cone Monochromacy

#### Statistics for Binary (Passport) Gender



D&I Initiatives by the LHC Experiments

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## ALICE DEI Office

- Promote diversity initiatives
- Advise ALICE team members & management
- Monitor diversity issues, collect and analyze data
- Liaise with DEI offices at CERN and other LHC experiments
- Promote well-being initiatives (New!)

#### Role in Collaboration

- ALICE Juniors representatives have a vote in the collaboration board
- Encouraged training for management roles to promote inclusivity at ALICE (offered yearly), funded by ALICE



Valentina Zaccolo Sami Räsänen

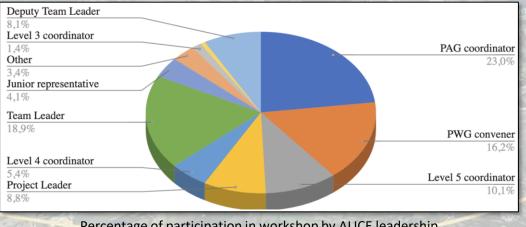
Ananya Rai

See plenary talk!

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#### Inclusive Workspaces Workshops

- Enhance self-awareness & develop strategies to overcome personal biases
- Foster a comfortable environment for idea sharing
- Provide skills to handle instances of harassment & inappropriate behavior
- Promote comprehension of relationships and effective cross-cultural communication

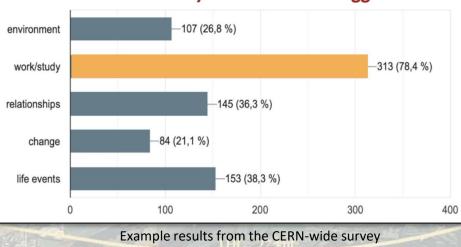


Percentage of participation in workshop by ALICE leadership

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#### CERN-wide well-being survey led by ALICE Juniors

- Shown at LHCP 2023
- 2023 Survey motivated DEI office to employ well-being initiatives



#### What are your main stress triggers?

-33.

## ATLAS



## ATLAS

## ATLAS D&I Contacts

- Appointed by CB Chair to 2-year overlapping terms
- Advise on Codes of Conduct
- Promote D&I and provide resources related to D&I
- Evaluate and propose training courses
- Act as contact for ATLAS members to discuss concerns related to D&I
- Liaison with other diversity contacts in HEP / CERN
- Compile / present a regular report on the composition of the collaboration
- Organise collaboration week discussions





Maria Teresa Dova

Steven Goldfarb





Flavia De Almeida Dias

## ATLAS

## Attending to Collaboration Concerns

- Non-anonymous contact via members or list
  - Follow-up, but all communications kept private
  - Action can be recommended, but not taken unless requested
- Anonymous contact via message box
  - Communicated with Management, CB Chair, as needed
  - Follow-up if requested and appropriate
  - Records maintained for future reference
- Discussion Sessions during Collaboration Weeks
  - Summary of DEI activities and how to make contact
  - Presentation from ATLAS institute on their programmes
  - Typically hashing out a hot topic



## **ATLAS Progress**

# Fraction of Women\* in Leadership Roles

spokesperson, 2 deputies; technical,

group leaders, 2 per group; 2y term

conveners per subgroup; ~2y term

Speakers Committee: 15 members,

member institutions Chosen by

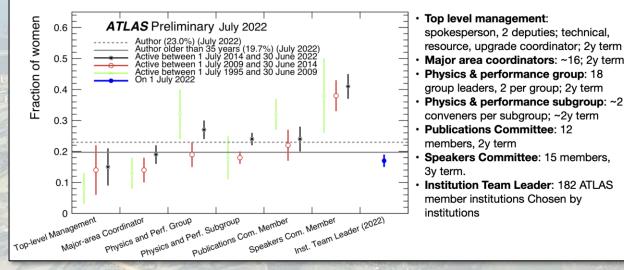
members, 2y term

3v term.

institutions

resource, upgrade coordinator; 2y term

Major area coordinators: ~16; 2v term



Statistics for Binary (Passport) Gender

ATLAS member since 2013-03-29 Preferred Flavia De Almeida Pronouns Dias (she/her) flavia.dias@cern.ch Physicist m Nikhef FOM - Institute SAF Nikhef and University of Amsterdam/Nikhef Contact on Diversity and Inclusion Derivation Production Manager A Active Author M Counted for M&O O Counted for Operation Tasks

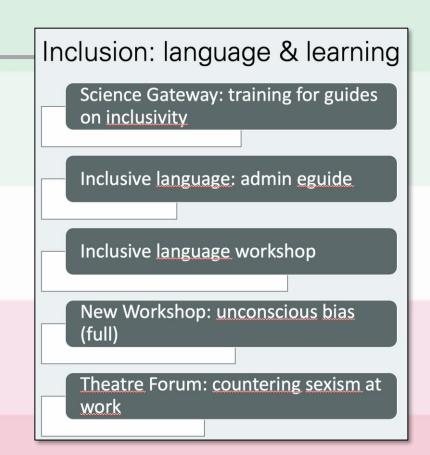
# **CERN D&I Programme**

#### Started in 2012, Recently a Programme

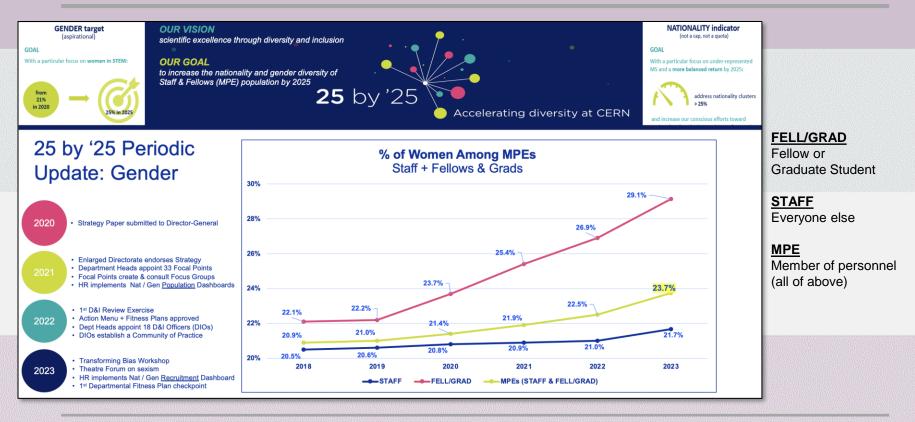
- Louise Carvalho (Leader, Legal Adviser HR)
- Melania Coletta (D&I Adviser)

## Sample of Initiatives and Activities

- Host D&I Roundtable
- 25 by '25 initiative
  - Increase Nationality & Gender diversity by 2025
  - Training Programmes for Personnel
- Invisible Dimensions Poll
- LGBTQ+ in STEM Day
- Neurodiversity (NSAC)



# CERN D&I Programme / 25 by '25 Progress



# LGBTQ+ @ CERN

## Informal Network

Might become an official CERN Club

## Initiatives & Activities

- Organised raising of Diversity Flag on Promenade
- Helped push for non-binary registration
- Helped push for gender-neutral restrooms
- Helped push for preferred pronouns, names in phonebook
- Participate in Geneva Pride, Relay Race, Cupcakes, etc.

## In General

- Raising awareness
- Fighting to implement change
- Social Support Network

LGB1

CERN

## Progress



CERN Promenade, November 2023

Non-Gendered Restroom at CERN

D&I Initiatives by the LHC Experiments

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## Progress

## From CERN Scanners to CERN Leadership



