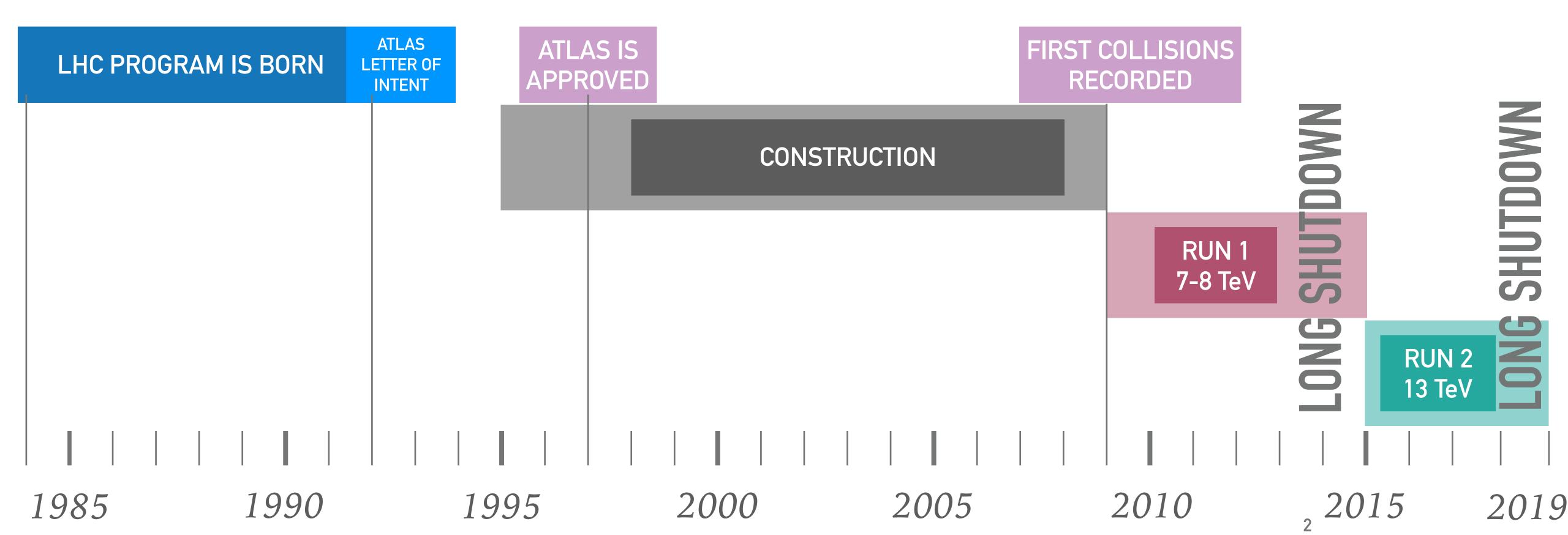


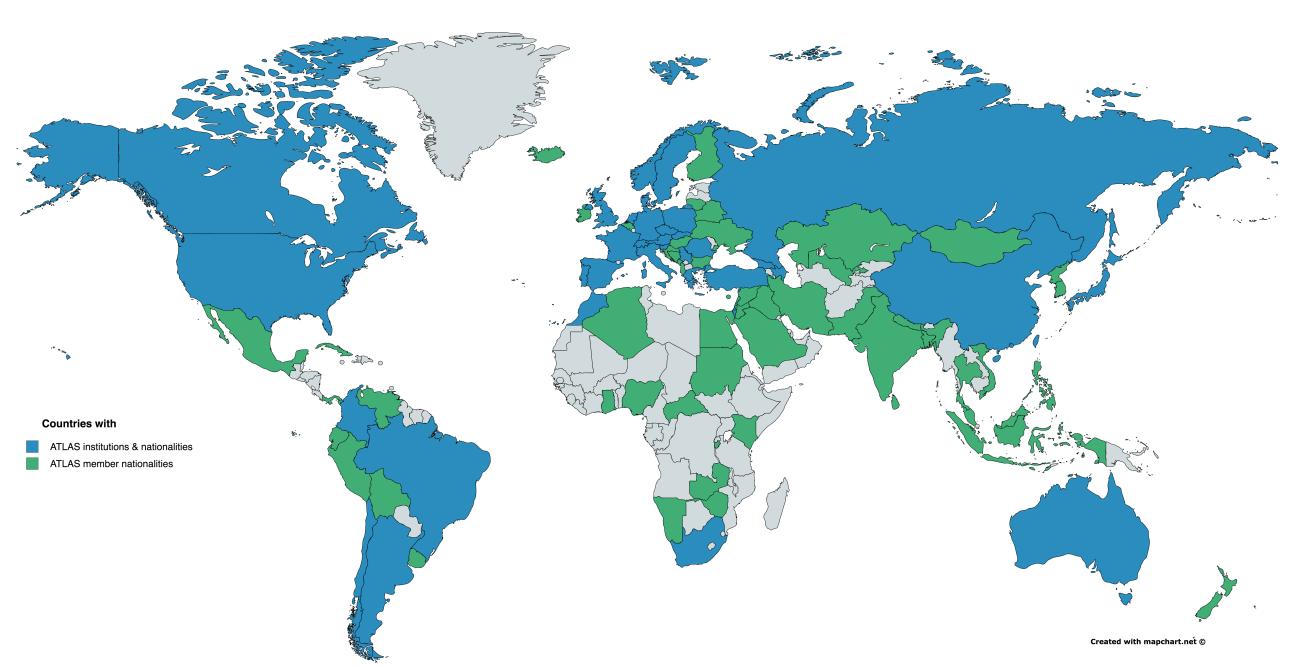
ABOUT ATLAS

Collaboration for the construction and operation of a general-purpose particle physics detector in the LHC ring, at CERN.



DIVERSITY

- ➤ It takes a lot of people! (~5900)
- Large variety with different age, gender, sexual orientation, gender identity, culture, physical ability, ethnicity, appearance, education, or religious background.
- > **Diversity**: one of CERN's core values.



APPRECIATING DIFFERENCES, FOSTERING EQUALITY AND PROMOTING COLLABORATION

- CERN CODE OF CONDUCT

PURPOSE OF THIS TALK

Study group on diversity established in 2015.

- Collect data on demographics, participation, leadership filling, recognition of contributions.
- Assess diversity.
- Make recommendations to best support it.
- Contacts for Diversity and Inclusion established in 2017.
- Contribute to studies on regional demographics in science.
- Contribute to studies on the role of women in science.



DATA COLLECTED

Data is collected, through the **CERN** administrative database.

- Name
- Gender: male, female
- Date of birth
- Profession
- Affiliation/Institution
- Nationality

Augmented by other databases that track participation:

- Contributions
- Technical
- Leadership roles
- Recognitions

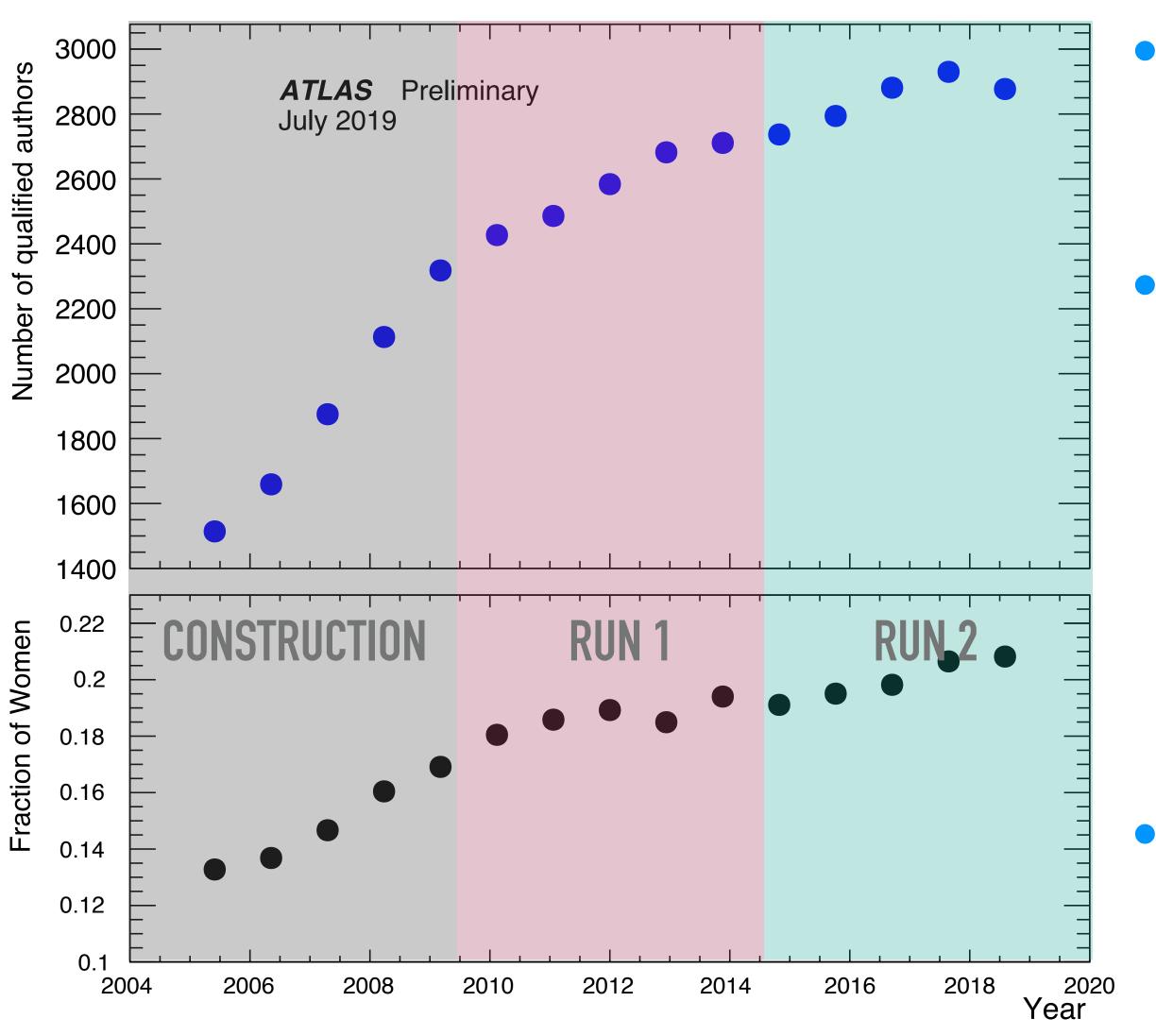
Data will be presented in 3 time blocks based on the ATLAS timeline.

SOME DEFINITIONS

- Member: someone who belongs to the ATLAS collaboration.
- Author: someone whose name is included in ATLAS publications.
- **Gender**: as stated by government issued ID (generally passport), option between male or female.
- Home institution*: research or educational organization to which a person belongs.

*Not to be confused with Nationality.

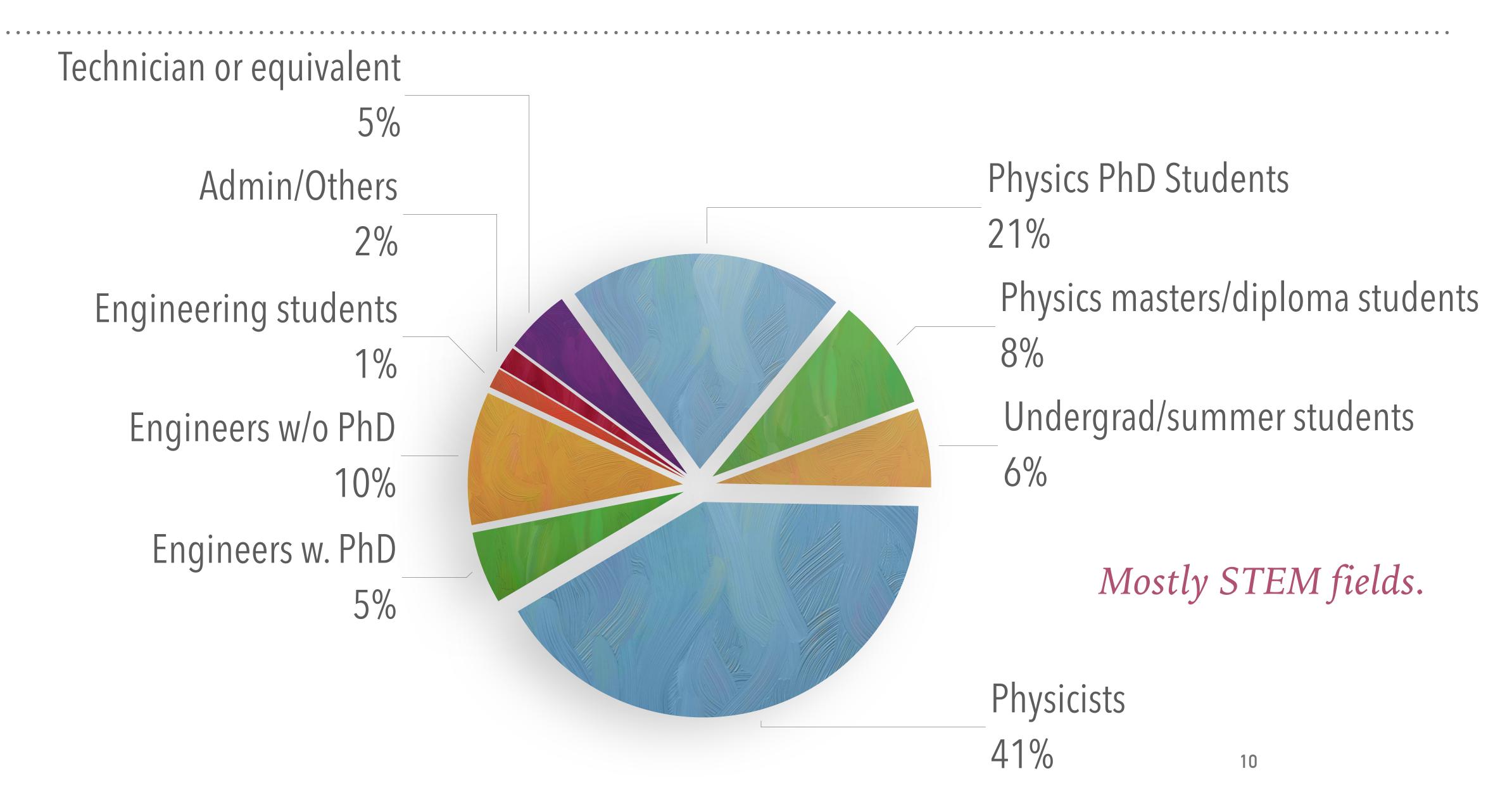
AUTHORS AND FRACTION OF WOMEN AUTHORS



- Fraction of women authors has increased, overall.
- Values of current fraction of women authors and <u>current</u> fraction of women authors older than 35 yrs will be included in fraction plots as reference.
- Colours indicate three time periods of plots to follow.

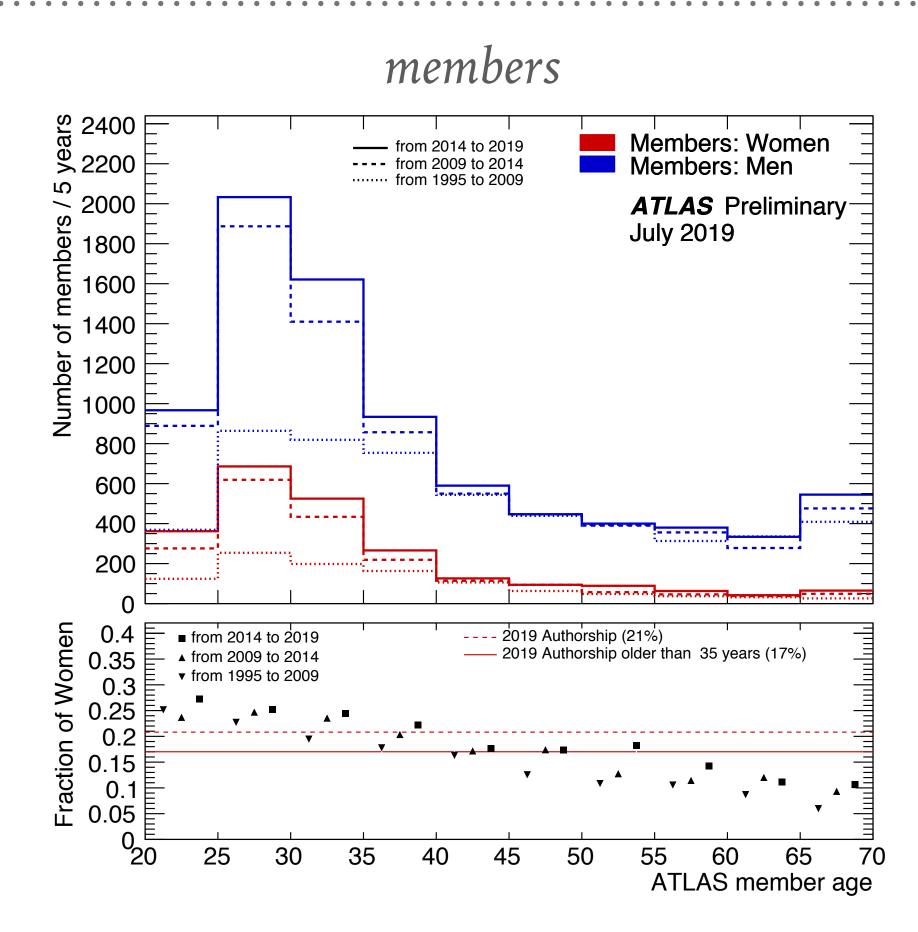


ATLAS MEMBERS PROFESSION BREAKDOWN

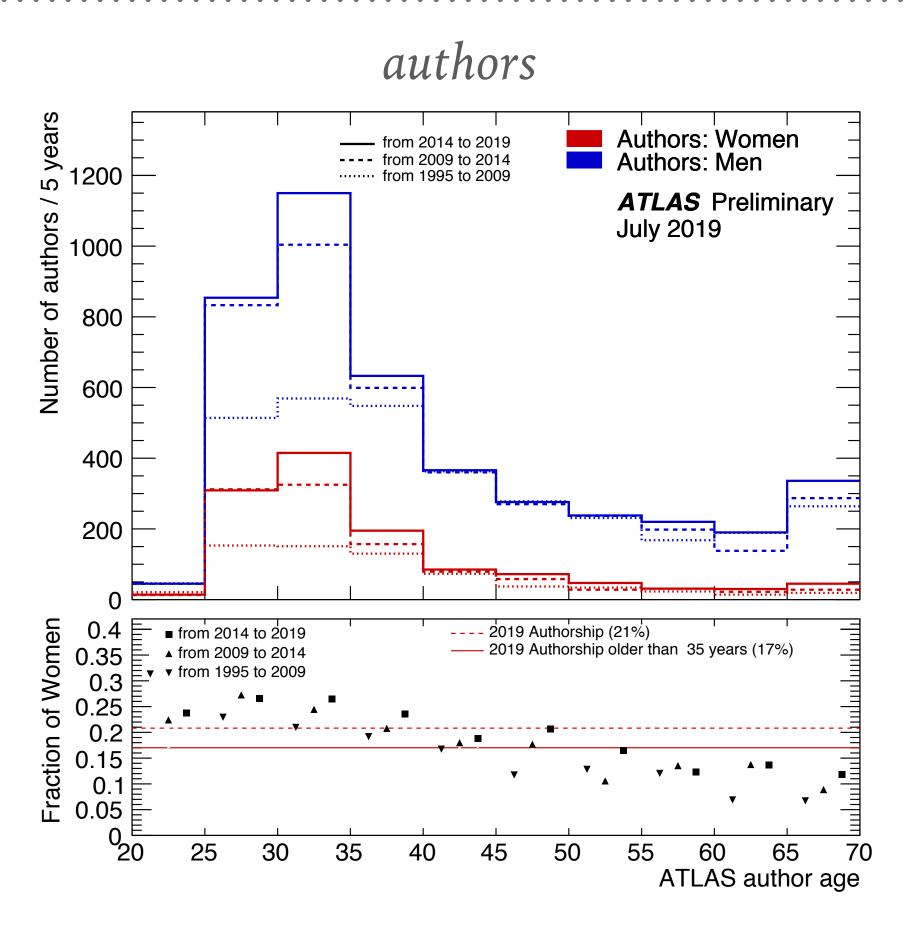




AGE DISTRIBUTION - FRACTION OF WOMEN



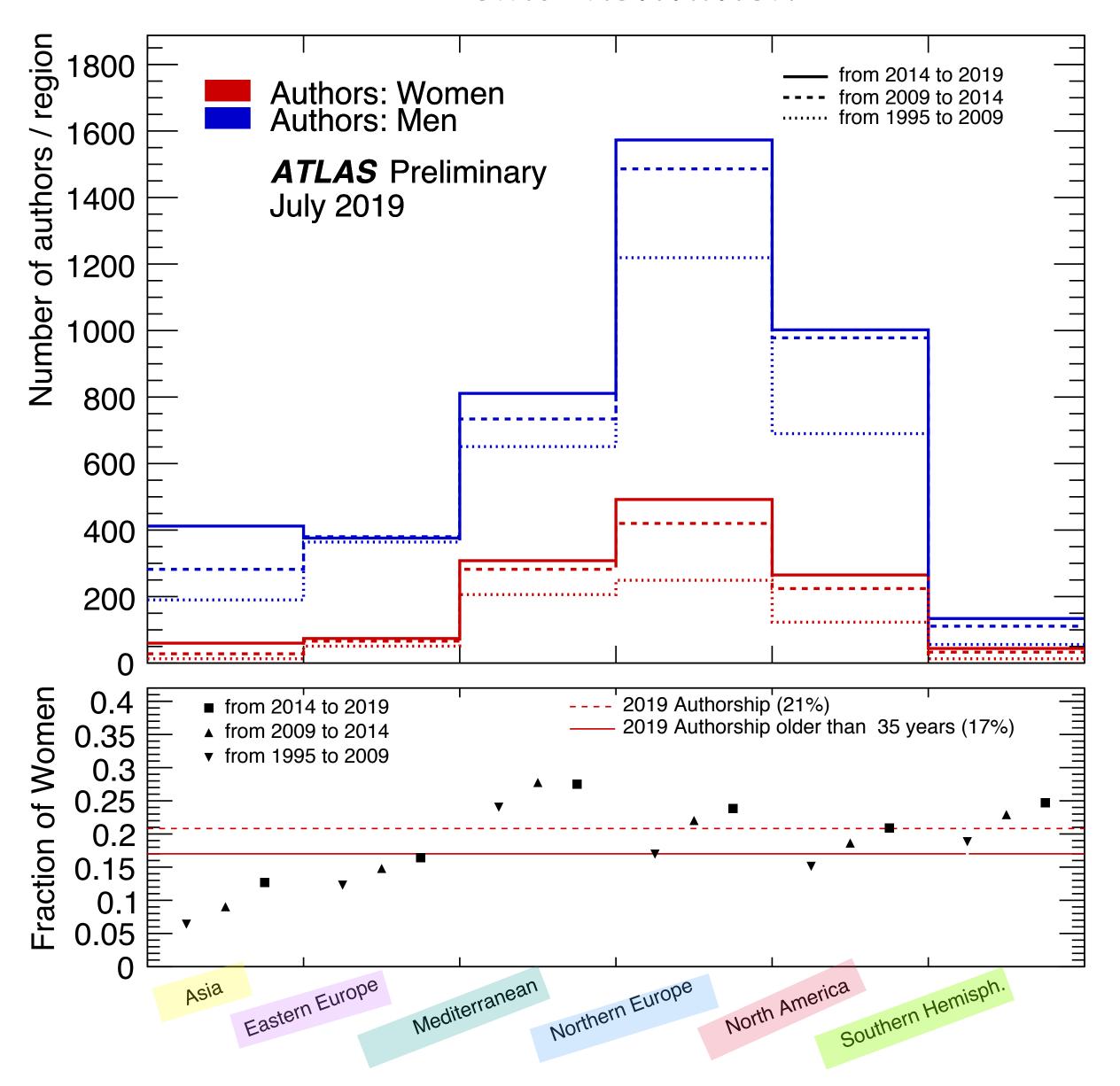
- Most of ATLAS members/authors are younger than 45.
- The collaboration is becoming **younger.**
- Overall, the fraction of women members/authors is increasing.



- The fraction of women members/authors decreases with age.
- Overall, the fraction of **women** members and the fraction of women authors follow the **same trend by age group as well as time** period.



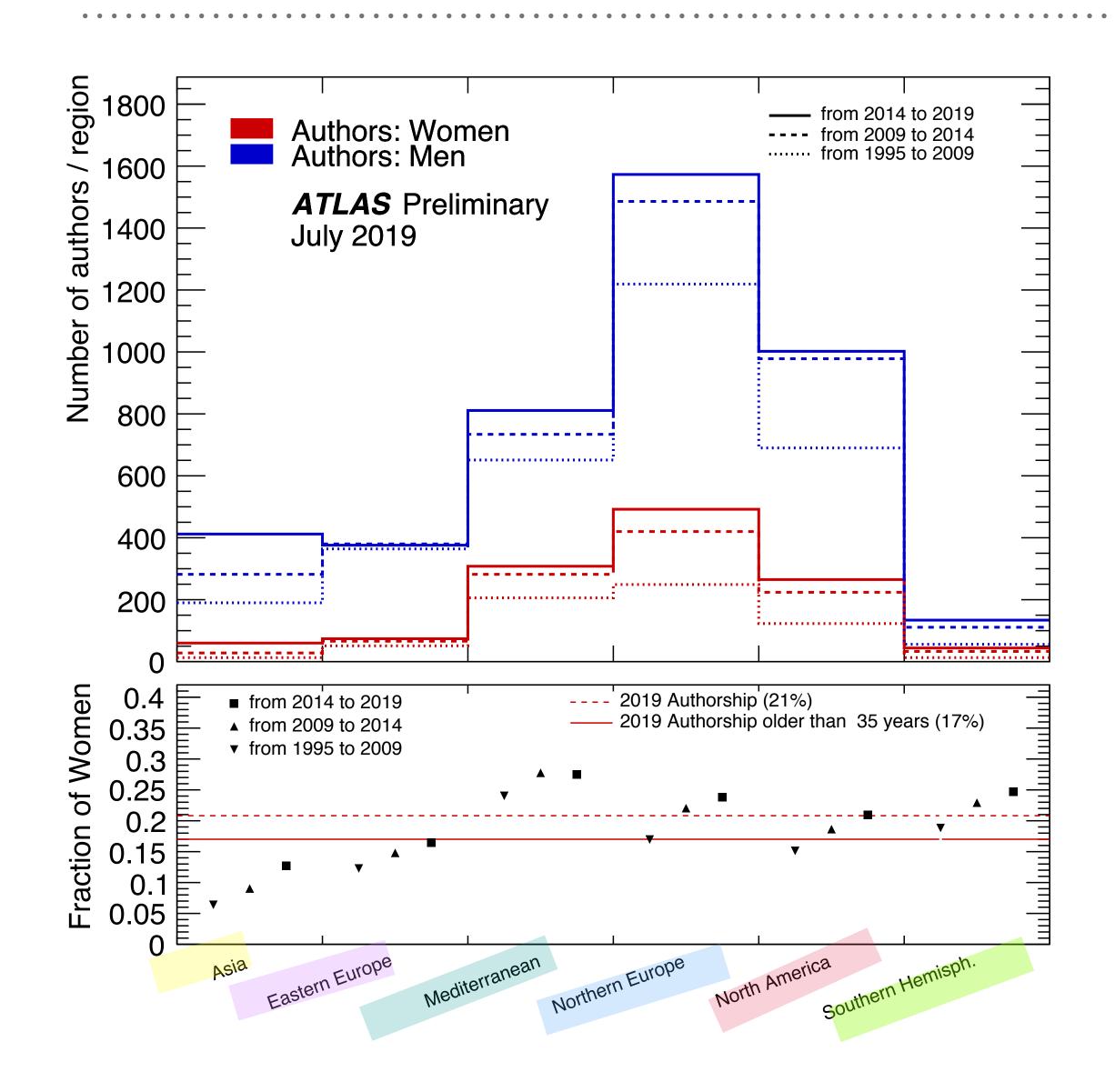
Home Institution





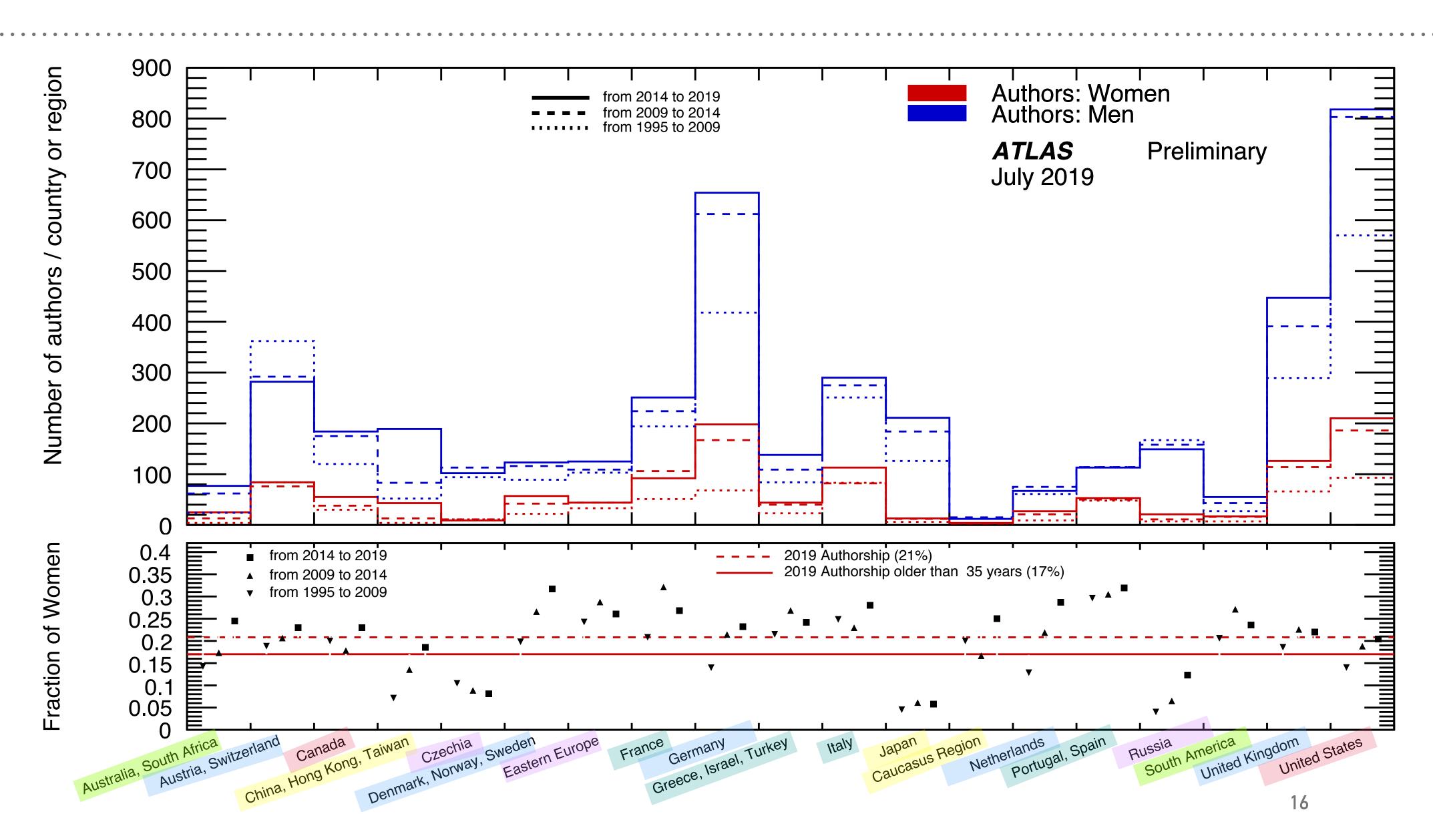
- Asia: Armenia, Azerbaijan, China, Georgia, Japan, Taiwan
- Eastern Europe: Belarus, Czechia, Poland, Romania, Russia (including JINR Dubna), Serbia, Slovakia, Slovenia
- Mediterranean: France, Greece, Israel, Italy, Portugal, Spain, Turkey, Morocco
- North America: Canada, USA
- Northern Europe: Austria, Denmark, Germany, the Netherlands, Norway, Sweden, Switzerland (including CERN), UK
- Southern Hemisphere: Argentina, Australia, Brazil, Chile, Colombia, South Africa

COMMENTS ON REGIONAL AUTHORSHIP



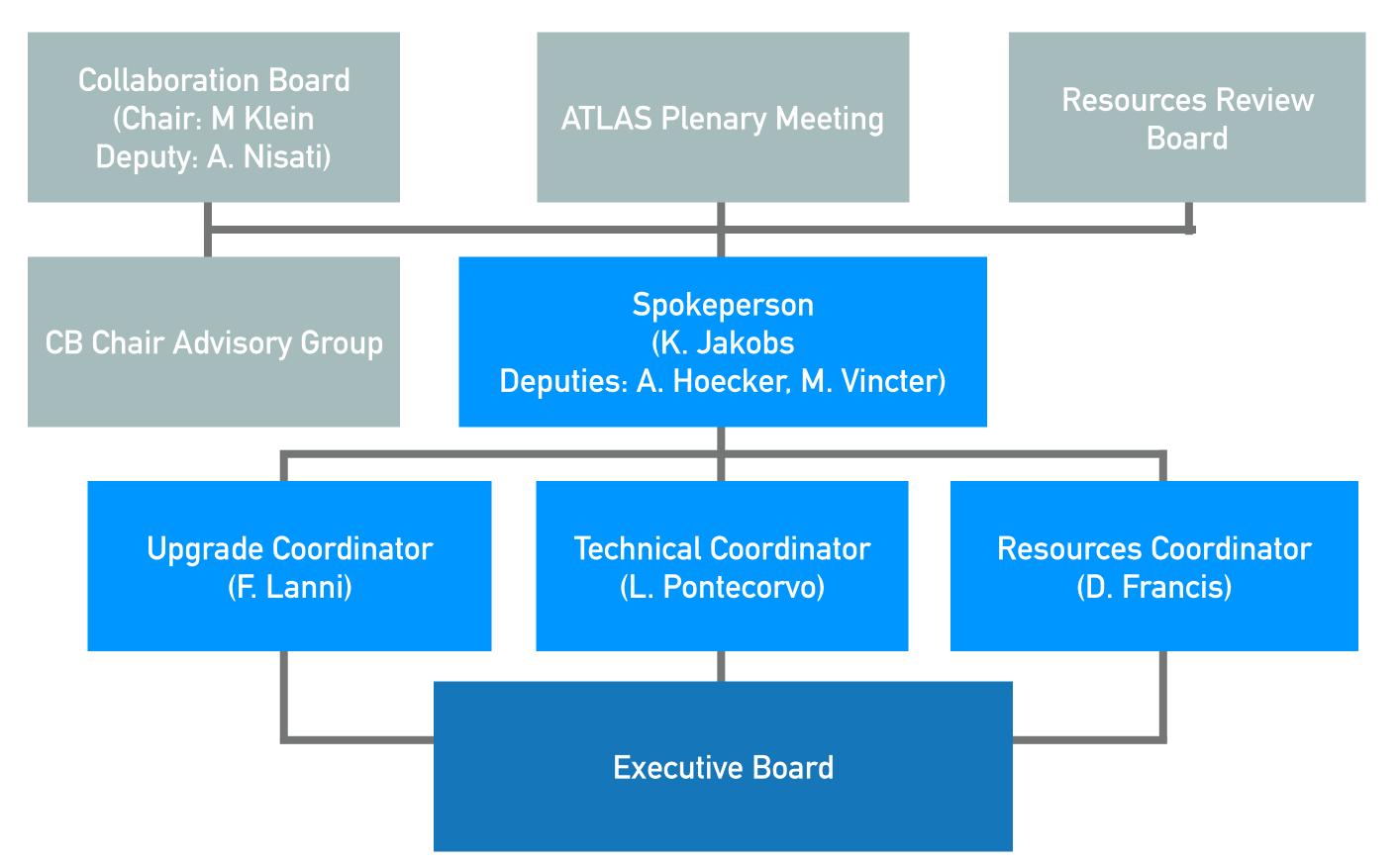
- Asia, North America and the Northern Europe have experienced a considerable increase of authors.
- Eastern Europe is the region with the slowest increase of authors.
- Most regions have had a steady increase in the fraction of women authors except for the Mediterranean.
- The mediterranean has been the region with the largest fraction of women authors in all three time periods.
- Asia is the region with the smallest fraction of women authors.

GEOGRAPHICAL BREAKDOWN OF AUTHORS





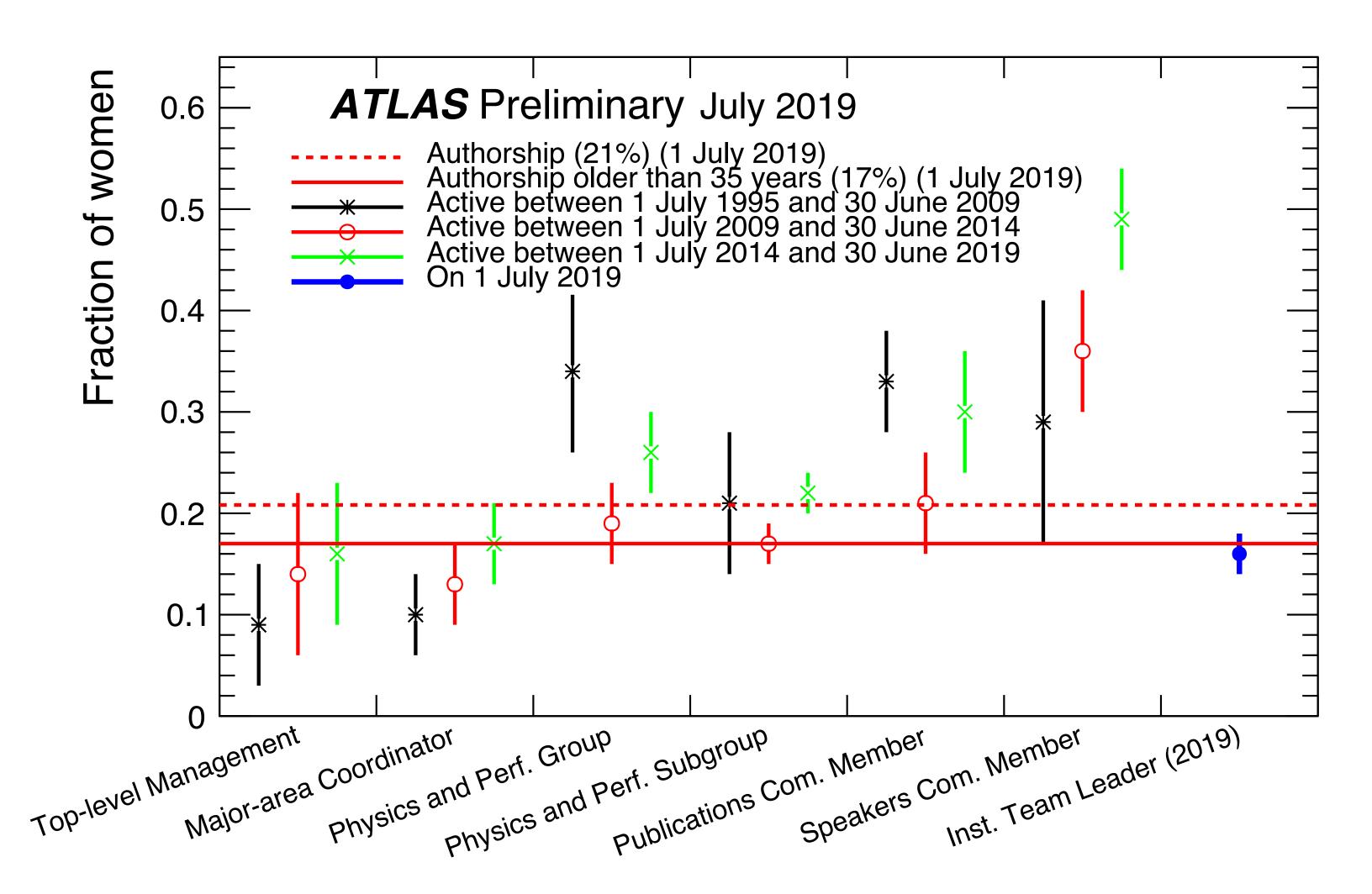
TOP LEVEL MANAGEMENT



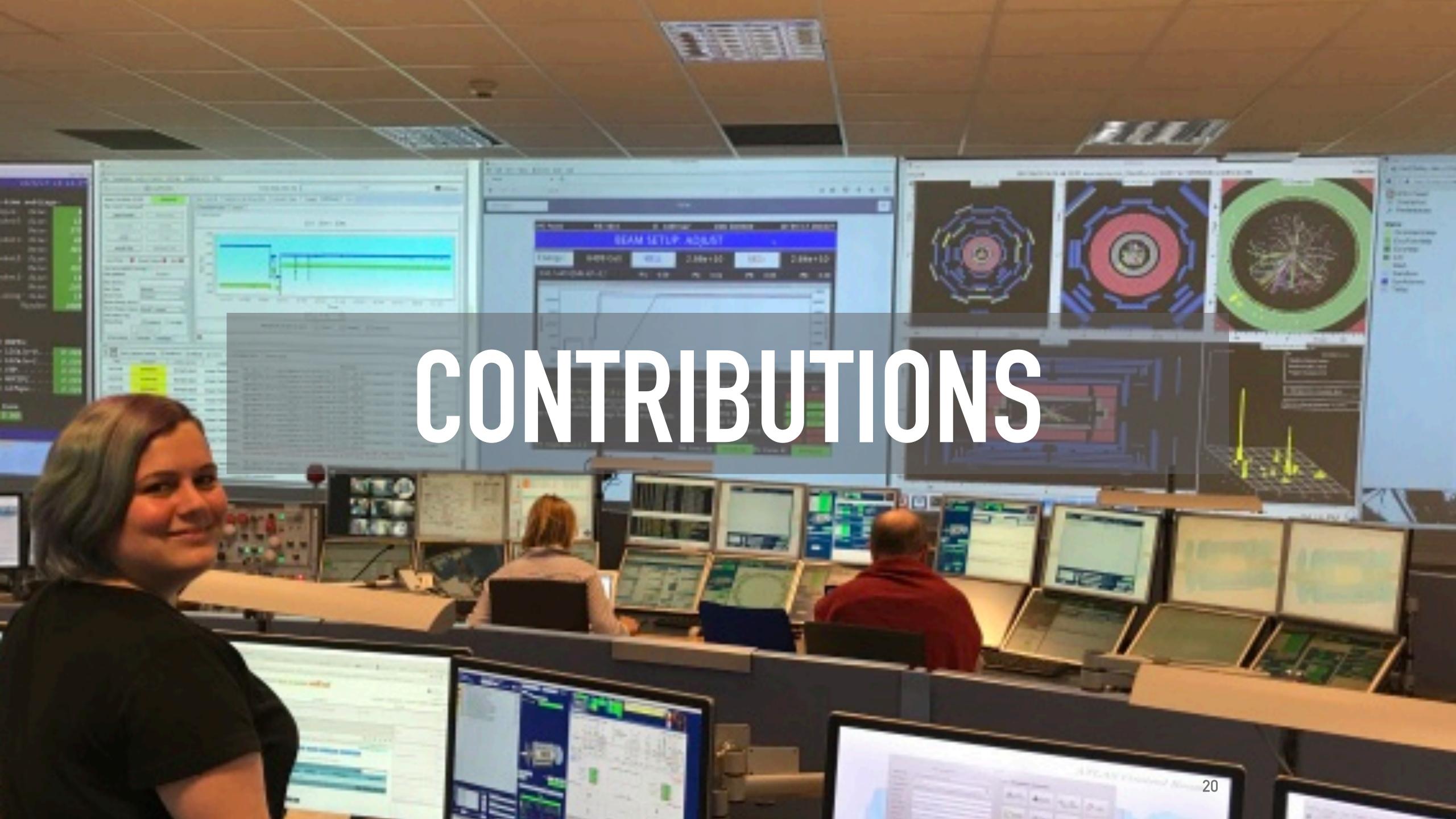


The management of the ATLAS experiment. From left to right: Andreas Hoecker (Deputy Spokesperson), Ludovico Pontecorvo (Technical Coordinator), Karl Jakobs (Spokesperson), Francesco Lanni (Upgrade Coordinator), Manuella Vincter (Deputy Spokesperson) and David Francis (Resource Coordinator). (Image: E. Ward/ATLAS Collaboration)

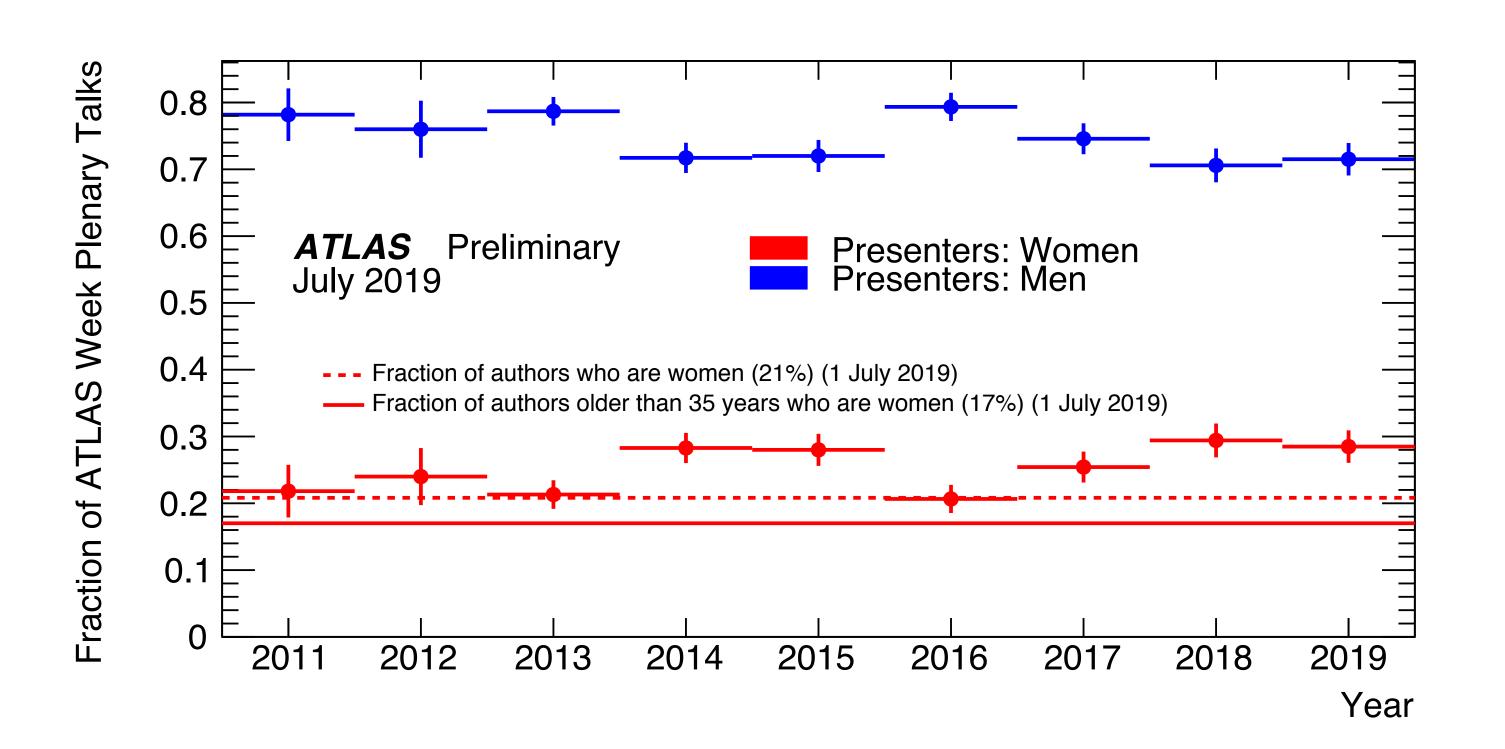
FRACTION OF WOMEN IN LEADERSHIP ROLES



- Top level management: spokesperson, 2 deputies, technical, resource, upgrade coordinator. 2y terms.
- Major area coordinators: ~16, 2y terms.
- Physics and performance group: 2 conveners per group (Combined Performance 6, Physics Analysis 12), 2y terms.
- Physics and performance subgroup: ~ 2
 conveners per subgroup.
- Publications Committee: 12 members, 2y term
- Speakers Committee: 15 members, 3y term.
- Institution Team Leader: 182 ATLAS member institutions. **Chosen by institutions**.



ATLAS WEEK PLENARY TALKS



Because names of people in the calendar system can not be linked to entries in the CERN HR database, for this plot, gender is derived from first name using http://genderize.io

- ATLAS week takes place
 3 x year.
- Fraction of contributions made by women is currently above fraction of women authors.

CLOSING REMARKS

- > ATLAS is composed of members from over 90 **nationalities**, with ages spanning 5 decades.
 - > Fraction of women members in the collaboration decreases with age and varies significantly among the different institute regions.
 - \triangleright Currently, ~21% of its authors are women and ~17% of its authors over 35y are women.
- > Some **regions** have shown considerable membership growth over the years the ATLAS collaboration has been active.
 - > In parallel, almost all regions have seen an increase in the fraction of women members.
- ➤ **Participation of women speakers** at ATLAS week talks is currently greater than the fraction of women authors.
- ➤ The fraction of **leadership roles** held by women members has increased over the last 5 years for all roles.

THANK YOU