**GENDER GAP IN SCIENCE** A Global Approach to the Gender Gap in Mathematical, Computing and Natural Sciences: How to Measure It, How to Reduce It? **Roundtable in SISSA** The gender gap in science in Europe and North America 6 November 2019 Marie-Françoise Roy, IMU **Coordinator of the project** 

# The participants to the ICTP Conference

More than 100

**Coming from 60 different countries** 

### All continents

Several scientific disciplines : mathematics (including applied), physics, astronomy, computer science, biology, chemistry, history of sciences

90 % female

### What is the Gender Gap?

Gap between women and men interms of their levels of participation, access to career-advancing opportunities and resources, rights, remuneration or benefits.

How to measure it and to reduce it in Science ?

# What is the Gender Gap in Science Project ?

#### 3 Tasks

- Task 1: Joint global survey
- Task 2: Joint data-backed study on publication patterns
- Task 3: Database of good practices for girls and young women, parents, and organizations

### **Funding and Partner Organizations**



<b>S</b>	International Mathematical Union
	International Union of Pure and Applied Chemistry
UPAP	International Union of Pure and Applied Physics
IUHPST Internet Internet	International Union of History and Philosophy of Science and Technology
<b>VAU</b>	International Astronomical Union
United Nations Educational Scientific and Cultural Organization	United Nations Educational, Scientific and Cultural Organization

IUBS	International Union of Biological Sciences
Gendering States and a state and a state of the state of	Gender in Science, Innovation, Technology and Engineering
ICIAM	International Council for Industrial and Applied Mathematics
	Organization for Women in Science for the Developing World
acm	Association for Computing Machinery

## **Main preoccupations**

By geographical zone By developement level By discipline

## What are the Recommendations of the Gender Gap Project ?

#### **Preliminary recommendations in the Report**

- for instructors and parents
- for local institutions
- for national (and beyond) organizations

Discussed in an interactive way during the World Cafe Part of the last session on friday The gender gap in science in Europe and North America

SISSA is a coorganizor of the ICTP conference At ICTP we already discussed the situation in Africa, Asia, Latin-America, More/Less developed countries, By disciplines







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## **From the Publication Patterns**



Figure 22: Deviation from the average proportion of women in single-author mathematics publications from zbMATH's Core Math data set in 2009-2018 broken down by the authors' countries of work.