

## **Women in mathematics around the world: strategies for gender equality**

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The analysis of the gender gap in mathematics and the efforts to reduce have been part of the landscape of the mathematical community since more than 50 years, at least in North America and in Europe.

In the last ten years the approach became more global, with the launching of associations of women in mathematics in all continents, the creation by the International Mathematical Union of the Committee for Women in Mathematics and significant interdisciplinary initiatives.

More and more people in our scientific community -mainly women but also men - keep working to understand better the gender gap in mathematics, to fight against the invisibilization of women in mathematics and to develop a deeper qualitative approach of remaining challenges through exhibitions, films and interviews. Best practices are being identified and the positive changes are real, but remain very slow. My talk will concentrate on three topics:

- some aspects of the gender gap in mathematics, as they appear through the comparison with other scientific disciplines made possible by the global questionnaire developed by the Gender Gap in Science project
- the success of the May 12 initiative Celebrating women in mathematics all over the world since 2019
- the presentation of some exhibitions, interviews and films, helping us to have a more qualitative approach of the obstacles to gender equality and the strategies developed to reach it.