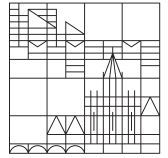


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A Global Approach to the Gender Gap in Mathematical, Computing, and Natural Sciences: How to Measure It, How to Reduce It?

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Abstract. The motivation of the project “A Global Approach to the Gender Gap in Mathematical, Computing, and Natural Sciences: How to Measure It, How to Reduce It?” is that the percentages of women scientists remain shockingly low and there is a significant gender gap at all levels between women and men. It is a three years project, 2017-2019, awarded by ICSU (International Council for Science) with a basic budget of 100 000 euros each year. The project will produce sound data to support the choices of interventions that ICSU and member unions can feasibly undertake. Data will be collected via a *joint global survey (Task 1)* planned to reach 45,000 respondents in more than 130 countries using 7 languages. Contrasts and common ground across regions and cultures, less developed and highly developed countries, men and women, mathematical, computing and natural sciences, will be studied. A *bibliographic study of publication patterns (Task 2)* will correspond to publications of more than 500,000 scientists since 1970. This will highlight contrasts between men and women in publishing their research papers. The project also aims to provide a *database (Task 3)* giving easy access to materials proven to be useful in encouraging girls and young women to study and pursue education in mathematical, computing and natural sciences.