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Guadalupe Lozano* (guada@math.arizona.edu). *Measuring the Global Gender Gap in Mathematics and the Natural Sciences: Working Frameworks and a Recent Grant-Funded International Initiative*. Preliminary report.

Women's representation in mathematics and the natural sciences has globally improved in recent decades but not sufficiently to alleviate concerns about a persistent gender gap in such disciplines. How large is the gender gap in STEM fields? How does it vary across disciplines, countries, and what factors are associated to it?

While recent studies have begun to map gender differences in mathematics research publications and journal editorships across time and countries, a systematic effort to tackle the quantification of the global gender gap in STEM was, to our knowledge, lacking until last year.

In this talk I will frame the complex problem of measuring the global gender gap in STEM, and introduce a new initiative led by the International Mathematical Union (IMU) and the International Union of Pure and Applied Chemistry (IUPAC) to measure the global gender gap in mathematics and the natural sciences. (Received September 23, 2017)