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Talk Title: The new SI Metrological system

Abstract: On 20 May 2019, World Metrology Day, the international metrology community adopted revolutionary changes to the International System of Units (the SI, or Metric System) wherein all of the base units of measure are defined by fixing the values of constants of nature. The SI is now firmly based on quantum methods of measurement. The talk will explain why we needed such a reform and how we achieved it.