

Call for Abstracts

# 2<sup>nd</sup> International Workshop on Metrology for Virtual Measuring Instruments

**Date:**

3. – 4. December 2025

**Location:**

online

**Registration:**

[virtmet2025.ptb.de](http://virtmet2025.ptb.de)

(There are no fees for participation.)

In the course of digitalization, the importance of mathematical-physical simulations and in silico experiments is increasing rapidly. When such simulations are used to imitate real measuring equipment or real measurements, this can be described as a "virtual measuring instrument" or "virtual measurements". These are now in everyday use in many areas. For example, simulations are used to gain a better understanding of the real experiment, to plan new experiments or to analyze existing experiments. Simulations are now also increasingly being used as an essential component of a real measurement, usually as part of an inverse problem. In this development, the task of metrology is to ensure confidence in simulation results if they are to be used in the same way as real measurements.

**To discuss recent developments in the field of virtual metrology, the PTB is organizing the 2<sup>nd</sup> International Workshop on Metrology for Virtual Measuring Instruments.**

Contributions (max. 500 words) on the following topics can be submitted until 15 Sept. 2025 at [virtmet2025.ptb.de](http://virtmet2025.ptb.de):

- Simulations, virtual experiments, digital twins in the fields of metrology, quality assurance, industrial application
- Example applications
- Sensors and methods for parameterization
- Software architectures for digital twins
- Validation, calibration and standardization

With best regards,

The [VirtMet](http://virtmet2025.ptb.de) organization team

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