

1 Fundamental Constants and universality tests

- 1.1 Fine structure constant
- 1.2 Rydberg constant, proton radius
- 1.3 Newton's constant of gravitation
- 1.4 Fundamental consistency tests
- 1.5 Other – Fundamental Constants and universality tests

2 SI redefinition

- 2.1 « Mises en pratique » for the 2019 definitions
- 2.2 Other -SI redefinition

3 Realization and dissemination of the kilogram

- 3.1 Kibble balance
- 3.2 Silicon crystal
- 3.3 Dissemination of the kilogram
- 3.4 Gravimetry
- 3.5 Other – Realization and dissemination of the kilogram

4 Time and frequency

- 4.1 Optical oscillators, frequency combs
- 4.2 Optical clocks
- 4.3 Optical time and frequency transfer
- 4.4 RF oscillators and microwave clocks
- 4.5 Time scales and non-optical time and frequency transfer
- 4.6 Atom interferometry and applications
- 4.7 Other – Time and frequency

5 Quantum electrical standards I

- 5.1 Josephson voltage standards
- 5.2 Single-electron transport (SET) and quantum current standards
- 5.3 Quantum detectors for electrical quantum metrology (SQUID, CCC ...)
- 5.4 Other – Quantum electrical standards I

6 Quantum electrical standards II

- 6.1 Quantum Hall resistance standards
- 6.2 Graphene based standards
- 6.3 Quantum impedance standards
- 6.4 Other – Quantum electrical standards II

7 Photonics and optical metrology

- 7.1 Optical fibers
- 7.2 Laser sources and integrated systems
- 7.3 Single photon detection and measurements
- 7.4 Radiometric standards at the few photon level
- 7.5 Far infrared and THz metrology
- 7.6 Optical sensing of electrical quantities
- 7.7 Other – Photonics and optical metrology

8 Novel Sensors and Measurements

- 8.1 Electrical measurements for small mass and force metrology
- 8.2 Electrical and magnetic measurements at nanometric scales
- 8.3 New quantum sensors
- 8.4 Other – Novel Sensors and Measurements

9 Current

- 9.1 DC current
- 9.2 AC current
- 9.3 AC-DC current difference
- 9.4 Other – Current

10 Voltage

- 10.1 DC voltage
- 10.2 AC voltage
- 10.3 AC-DC voltage difference
- 10.4 AC and DC voltage ratio
- 10.5 Other – Voltage

11 DC Resistance

- 11.1 DC resistance
- 11.2 DC resistance bridges (including CCC-based bridges)
- 11.3 Other – DC Resistance

12 Impedance

- 12.1 Thompson Lampard capacitors
- 12.2 Capacitance
- 12.3 AC resistance
- 12.4 Coaxial bridges
- 12.5 Digital bridges
- 12.6 Other – Impedance

13 Magnetism

- 13.1 Magnetic properties of materials including nanomaterials
- 13.2 Magnetometers and magnetic sensors
- 13.3 Other – Magnetism

14 Power and Energy

- 14.1 Harmonic power
- 14.2 Power analysis
- 14.3 Smart grid & phase measurement unit
- 14.4 Smart grid power quality
- 14.5 Other – Power and Energy

15 High voltage and current

- 15.1 DC high voltage/current, ratios and sensors
- 15.2 AC high voltage/current, ratios and sensors
- 15.3 Other – High voltage and current

16 Radio Frequency / Microwave

- 16.1 Materials characterization
- 16.2 Antennas, fields, and electromagnetic compatibility
- 16.3 Fast pulses, terahertz, and waveform metrology
- 16.4 High-frequency power and noise
- 16.5 Network-parameters
- 16.6 Transmission line impedance standards
- 16.7 Other – Radio Frequency / Microwave