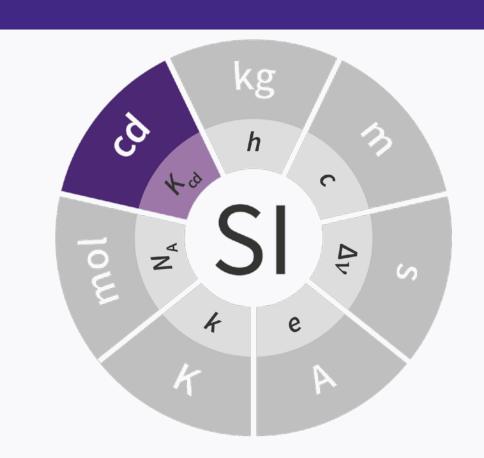
Photometry and Radiometry

The Consultative Committee for Photometry and Radiometry (CCPR)



Photometry

Describes the effects of visible light on the human eye in terms of brightness and colour as perceived by the human eye.



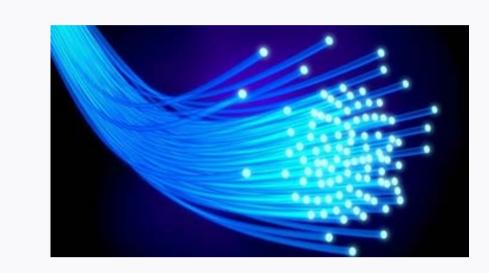
Radiometry

Metrology related to the physical measurement of the properties of electromagnetic radiation, including visible light.



Global forum for progressing the state of art

- Rewording of the Candela (cd) definition and updated mise-en-pratique published in 2015
- 9th SI brochure updating Appendix 3 on Units for Photochemical and Photobiological Quantities
- Workshops during CCPR meetings: Comparison Analysis (2015, 2017), Metrology Needs in Fibre Optics (2016)
 - ➤ Pilot Comparison on optical fibre power responsivity using a fibre-coupled cryogenic radiometer

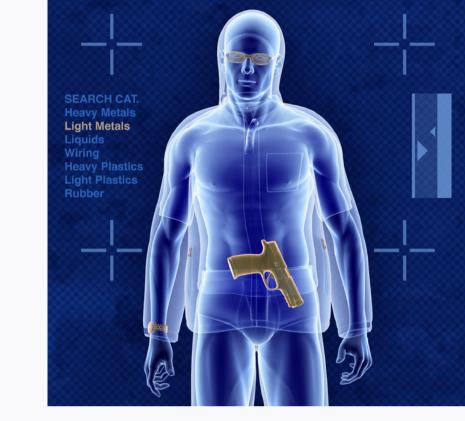


- 4 Discussion Forums : Fibre Optics, Few Photon Metrology, THz Metrology and Use of White LED Sources for Photometry

 Accurate TeraHertz measurements all
 - Pilot study on THz laser power comparison published

 [EEE Transactions on Terahertz Science and Technology, vol. 6, 5, 2016]

Stakeholders

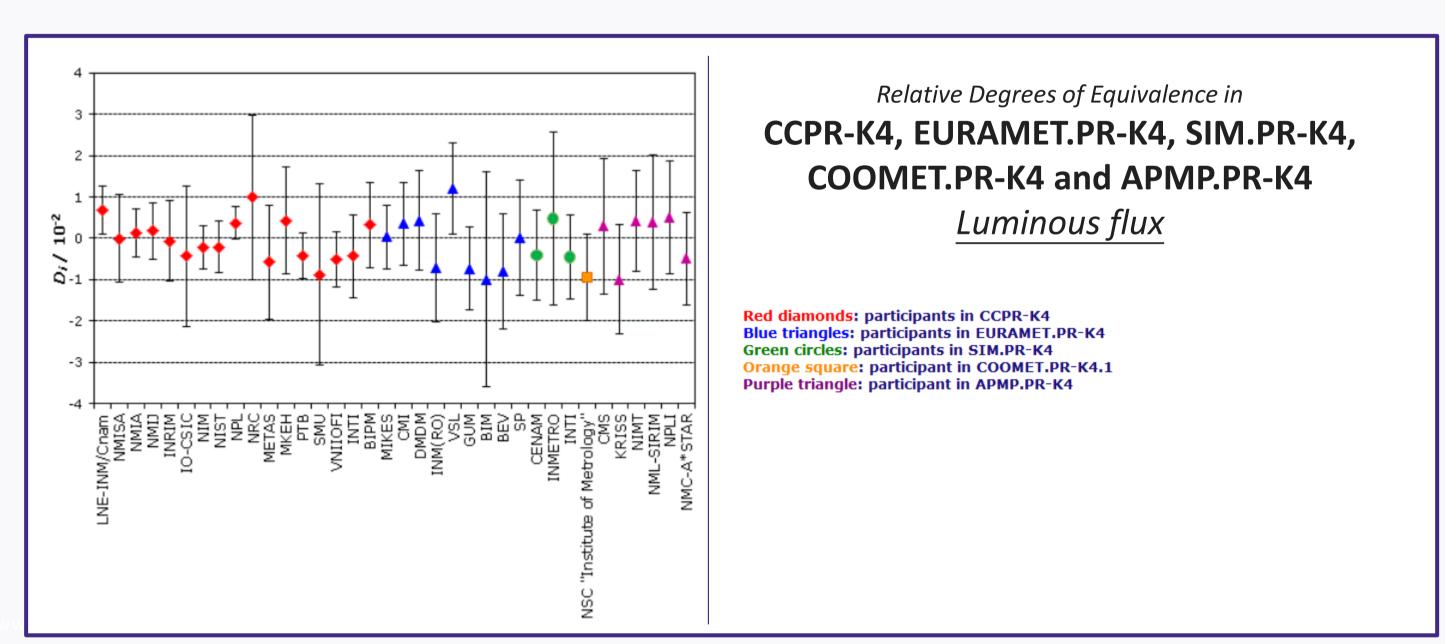


Accurate TeraHertz measurements allow development of instrumentation and sensors for remote sensing, THz imaging, high-speed telecommunications, and time-domain spectroscopy

Human vision International Cie Colour Organization for Standardization technology CCPR Photonics Health IEC. World eteorological Safety Lighting **Organization** Sustainable Optical Environment industry International **WIEEE Energy Agency** iea

Global Comparability

- Strengthening core competencies at CC level
 2nd round of Key Comparisons going on
- Extending comparability worldwide with RMOs
 10 RMO comparisons in progress



Improving efficiency of comparisons with 4 new guidelines

Key challenges for the future



