

Terms of reference of WG-NCTh

Proposed revision Jan 2021

- To study and provide advice to the CCT on issues related to thermal radiation and other approaches underlying non-contact temperature measurements
- WG-NCTh is tasked with:
 - Review and report on measurements of $T-T_{90}$ and associated fixed points by means of primary non-contact thermometry;
 - Review research and application of non-contact thermometry primary thermometers to realise the kelvin;
 - Review and advise CCT on research related to high-temperature fixed points;
 - Provide appropriate input, including revisions, into the *mise en pratique* for the definition of the kelvin;

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- Provide, where required, updates for [a\) the supplementary information](#) and [b\) approximating techniques](#) as regards the ITS-90;
- Support world-wide efforts in standardization of radiation thermometer and thermal imager testing and calibration;
- Develop appropriate uncertainty budgets for radiation thermometry;
- Recommend key comparisons relevant to WG-NCTh and to the CCT;
- Develop, when required, guidance for measurement best practice for secondary/novel non-contact thermometry techniques (e.g. phosphor, gold-cup thermometry, flame and plasma thermometry);
- Provide definitive guidance on the practice of Body Temperature Measurement (TG BTM)