

# Workshop on “Traceability and Dissemination”

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# Introduction

- The redefinition of the kelvin (2019) opened the path to direct measurement of  $T$ .
- The CCT recommended NMIs to take advantage of the opportunities for the realization and the dissemination of  $T$  offered by the kelvin redefinition and its *mise en pratique*.
- The *mise en pratique* (2019) anticipated that “primary thermometers will become more widely used and gradually replace the ITS-90 and the PLTS-2000 as the basis of temperature measurements”.

# Goal of the workshop

- Reflect together on:
  - **The transition  $T_{90} \rightarrow T$ :** How? Over how many years?
  - **The destiny of the ITS-90:** Will it disappear? When? Or do we need to revise it or even replace it with a new ITS-XX?
  - **The future Key Comparisons:** Will we run both  $T$  and  $T_{90}$  KC's?
  - **The future role of the NMIs:** How will the role of the NMIs change in the future? (for example, with the commercialization of practical primary thermometers)

# Workshop program

14;10-14;15: Introduction (Andrea Peruzzi)

14;15-14;45: **Naohiko Sasajima**, NMIJ/AIST, *“Dissemination and international comparison of thermodynamic temperature in non-contact thermometry”*

14;45-15;15: **Roberto Gavioso**, INRiM, *“Perspectives for the dissemination of thermodynamic temperature in contact thermometry”*

15;15-15;45: **Jonathan Pearce**, NPL, *“Approaches to in-situ SI traceability of temperature measurements through self-validation and practical primary thermometry”*

15;45-16;15 Coffee break

16;15-16;45 **Patrick Rourke**, NRC, *“Traceability in a mixed dissemination environment”*

16;45-17;15 **Jeff Gust**, Fluke Corp., *“The benefits of a potential revision of ITS-90 for industry”*

17;15-17;30 Discussion