

Thermometry and Primary Radiometry at NRC

Todd, A.D.W.

National Research Council Canada

1200 Montreal Road, Ottawa Ontario K1A 0R6, Canada

Andrew.todd@nrc-cnrc.gc.ca 613 993-7714

Abstract: The Thermometry and Radiometry Team at the National Research Council Canada (NRC) is responsible for all aspects of the realization of the Temperature Scale, the optical power scale (through cryogenic radiometry), and the irradiance scale. We also disseminate the temperature scale and optical power scale. The team is active in researching and developing fixed points for contact and non-contact thermometry, radiation thermometry, quantum radiometry, detector responsivity, source and detector based irradiance and primary thermometry. Here, I will briefly describe a number of the realization and service activities within the Thermometry and Radiometry Team at NRC. I will then describe in detail some of our current R&D activities.