

Blackbody Comparison Measurements for Improved Traceability of Longwave Downward Radiation Measurements

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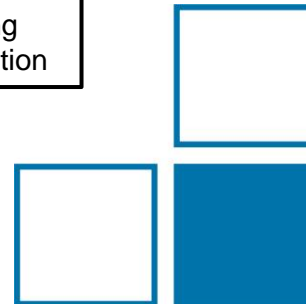
Pyrometers measuring
longwave downward radiation

This project has received funding from the EMPIR programme
co-financed by the Participating States and from the European
Union's Horizon 2020 research and innovation programme.

EMPIR

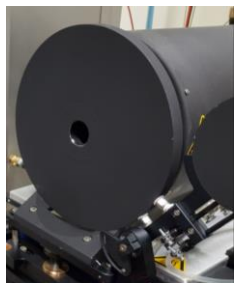


The EMPIR initiative is co-funded by the European Union's Horizon 2020
research and innovation programme and the EMPIR Participating States



Blackbody Comparison Measurements

At PTB

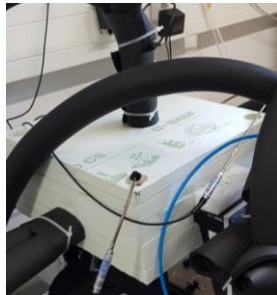


Heat-pipe Reference Blackbody



Hemispherical Blackbody (HSBB)

At PMOD/WRC

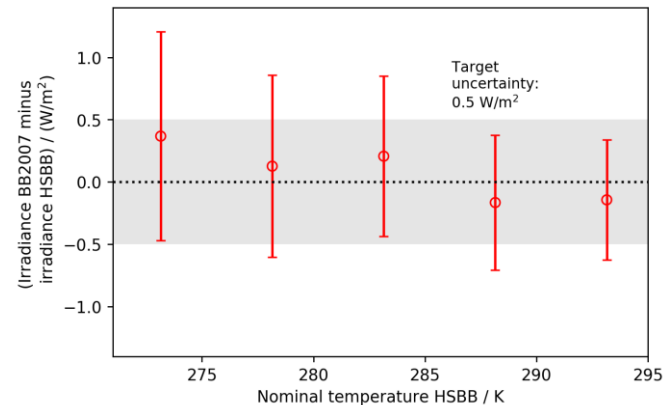


Hemispherical Blackbody (HSBB)



Tilted Bottom Cavity BB2007

With Infrared Integrating Sphere (IRIS) instrument



With radiation thermometer

With radiation thermometer and

Infrared Integrating Sphere (IRIS) instrument and pyrometer

Normal incidence, measuring radiation temperature

Hemispherical acceptance angle, measuring irradiance

National standard for the Radiation Temperature Scale at the PTB