



Contribution ID: 106

Type: **Poster presentation (105min)**

Effective Temperature of Non-uniform Temperature Distribution and Size Effects of Effective Temperature

Wednesday, 9 July 2014 14:15 (1h 45m)

The thermal radiation properties from a non-uniform temperature distribution are investigated and the effective temperature for non-uniform distribution is defined. The thermal radiation spectra for non-uniform temperature distributions are shown as a function of frequency and are compared to the effective temperature. The thermal radiation from arbitrary size of particle is derived and the effective temperature of the body is shown as a function of the particle size.

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Session Classification: Wed-Af-Posters Session 2.3

Track Classification: C-06: Heat transfer and thermo-physical properties of solids and fluids