Abstract Submitted
for the OSF15 Meeting of
The American Physical Society

Nernst's theorem and compressibilities JAMES MCNABB, Erie
Community College, IMTIAZ TANVEER, SHIGEJI FUJITA, University at Buf-
falo, New York, SALVADOR GODOY, National Autonomous University of Mex-
ico (UNAM) — The unattainability of reducing temperature to the absolute zero
is shown by using Carnot's theorem. Hence, the unattainability is distinct from
Planck–Fermi's statement of Nernst's theorem : the entropy vanishes at zero K.
The adiabatic and the isothermal compressibilities approach each other at 0 K.

Imtiaz Tanveer
University at Buffalo, New York

Date submitted: 24 Sep 2015   Electronic form version 1.4