

## Study notes for lecture 7, Ideal gas, Chapter 6

The following parts are of special/central importance. (2012-02-07)

1. Fermi–Dirac distribution function.
2. Bose–Einstein distribution function
3. Classical limit eq 13 and figure 6.6 . Several results like eq 17, 18 and 24 have been reached earlier but here results are reached from the distribution function.
4. Specific heat eq 36 and how  $C_v$  and  $C_p$  relate.
5. Internal degrees of freedom
6. Reversible and irreversible expansions on pages 171–176.