

In the name of God

Department of Physics
Shahid Beheshti University

ADVANCED STATISTICAL PHYSICS I

Exercise Set 2

(Date Due: 1393/08/10)

1. Solve exercise of chapter 1 (R. K. Pathria): Q1, Q3, Q5, Q7, Q9, Q12, Q15, Q16
2. In micro-canonical ensemble, compute the thermodynamical properties of ultra-relativistic particles.
3. Solve exercise of chapter 2 (R. K. Pathria): Q1, Q5, Q9
4. Solve exercise of chapter 3 (R. K. Pathria): Q5, Q7, Q4, Q15, Q18, Q23, Q27, Q30, Q35, Q36, Q40, Q42

Good luck, Movahed
