

In the name of God

Department of Physics  
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**ADVANCED TOPICS IN STATISTICAL PHYSICS II**

**Exercise Set 4**

**(Date Due: 1396/03/01)**

1. Problems 1, 4, 9 of Chapter 9 Pathria.
2. In the Boltzmann equation for evolution of distribution function, explain the meaning of Pauli Blocking and Bose Enhancement.
3. Describe recombination and decoupling epochs.
4. Compute temperature of neutrino background.

Good luck, Movahed

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