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Problem Set # 3 Due: 10/18/13 Kinetic
Theory 1 Poisson Brackets: (a) Show
that for observable $O(p(\mu), q(\mu))$,
 $dO/dt = \{O, H\}$, along the time
trajectory of any micro state μ , where
 H is the Hamiltonian (b) If the
ensemble average ($\{O, H \dots$

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8.333: Statistical Mechanics I Problem
Set # 1 Solutions Fall 2000 Surface
Tension 1. Capillary forces: (a) i: The
work done by a water droplet on the
outside world, needed to increase the

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radius from R to $R + \delta R$ is $W = (P - P_0) \frac{4}{3} \pi R^2 \delta R$; where P is the pressure inside the drop and P_0 is the atmospheric pressure. In equilibrium, this should be equal to the increase in the surface energy $\delta W_s = 8 \pi R^2 \delta R$, where S is the surface tension, and $W_{\text{total}} = 0$; \Rightarrow
 $W_{\text{pressure}} = W_{\text{surface}}$; resulting in $(P$

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PROBLEM SET 6: Statistical Mechanics
of Simple Systems This Problem Set
can be attempted during Weeks 4
and 5 of Hilary Term, with the tutorial

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or class on this material held at the end of Week 5 or later. Calculation of thermodynamic quantities from the partition function 6.1 Consider an array of N localised spin $\frac{1}{2}$ paramagnetic atoms.

Problem Sets 5-8: Statistical

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Set # 5 Solutions Fall 2003

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Two-dimensional electron gas 1.

Electron gas in a magnetic field: (a) The Hamiltonian for non-interacting free electrons in a magnetic field has the form $H = \sum_i \left[\frac{p_i^2}{2m} + e \mathbf{A} \cdot \mathbf{p}_i + \frac{e^2}{2m} \mathbf{A}^2 \right]$; or in expanded form $H = \sum_i \left[\frac{p_i^2}{2m} + e \mathbf{p}_i \cdot \mathbf{A}_i + \frac{e^2}{2m} \mathbf{A}_i^2 \right]$:

Substituting $\mathbf{A} = \nabla \times \mathbf{A} = \nabla \times \mathbf{A}$, results in H

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= p2.2m + e2m

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Many of the problem sets have an associated suggested reading. Huang, Kerson. Statistical Mechanics. 2nd ed. New York, NY: Wiley, 1987. ISBN:

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Statistical Mechanics ...

Statistical Mechanics I Problem Set #

3 Due: 10/18/13. Kinetic Theory. 1.

Poisson Brackets: (a) Show that for
observable $O(p(\mu), q(\mu))$, $dO/dt =$

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$\{O, H\}$, along the time trajectory of any micro state μ , where H is the Hamiltonian. (b) If the ensemble average $\langle \{O, H\} \rangle = 0$ for any observable $O(p, q)$ in phase space, show that the ensemble density satisfies $\langle \{H, \rho \rangle = 0$.

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PHY831 Graduate Statistical
Mechanics: Fall 2012

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Problem Sets Solutions The work
done by a water droplet on the
outside world, needed to increase the
radius from R to $R + \Delta R$ is $W = (P - P_0)$

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4. $\Delta R = \frac{2S}{R}$; where P is the pressure inside the drop and P_0 the atmospheric pressure. In equilibrium, this should be equal to the increase in the surface energy S

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Statistical mechanics of black holes. It is based on the paper by G. Gour, Phys Rev. D 61, 021501(R) I have also included this exercise as a new optional vacation work question (R.7) in the updated Revision Problem Set, along with an opportunity to be creative about elastic chains (R.6).

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Note by the way an intriguing
connexion between gravity

A1: Statistical Physics - MT17

This volume, Statistical Mechanics:
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Solutions Companion Lecture Notes volume. In many cases, the solutions include result discussions that enhance the lecture material. For reader's convenience, the problem assignments are reproduced in this volume.

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