
PROBLEM SET 5

Oct. 31 Colloquium: “The Search for Power Laws: Jamming in Foams”

Prof. Michael Dennin, UCI

3:30 pm, 101 Rowland Hall

1. Eisberg and Resnick problem 11.19.
2. Eisberg and Resnick problem 11.20.
3. Eisberg and Resnick problem 12.21.
4. Eisberg and Resnick problem 12.22(a).
5. How does the transition temperature T_C depend on the number of particles N if $E=pc$ for Bose condensation? (Hint: You don't have to evaluate any integrals. Just try scaling, i.e., make the variables in the integral dimensionless. Your answer should be of the form $T_C \sim N^\alpha$. Find α .)