

Week 11 - #1

Lagrangian and Hamiltonian Dynamics (III)



Today: Ch 7.6-7.9

Next Class: Ch 7.10-7.13

Ji-hoon Kim (Seoul National University)

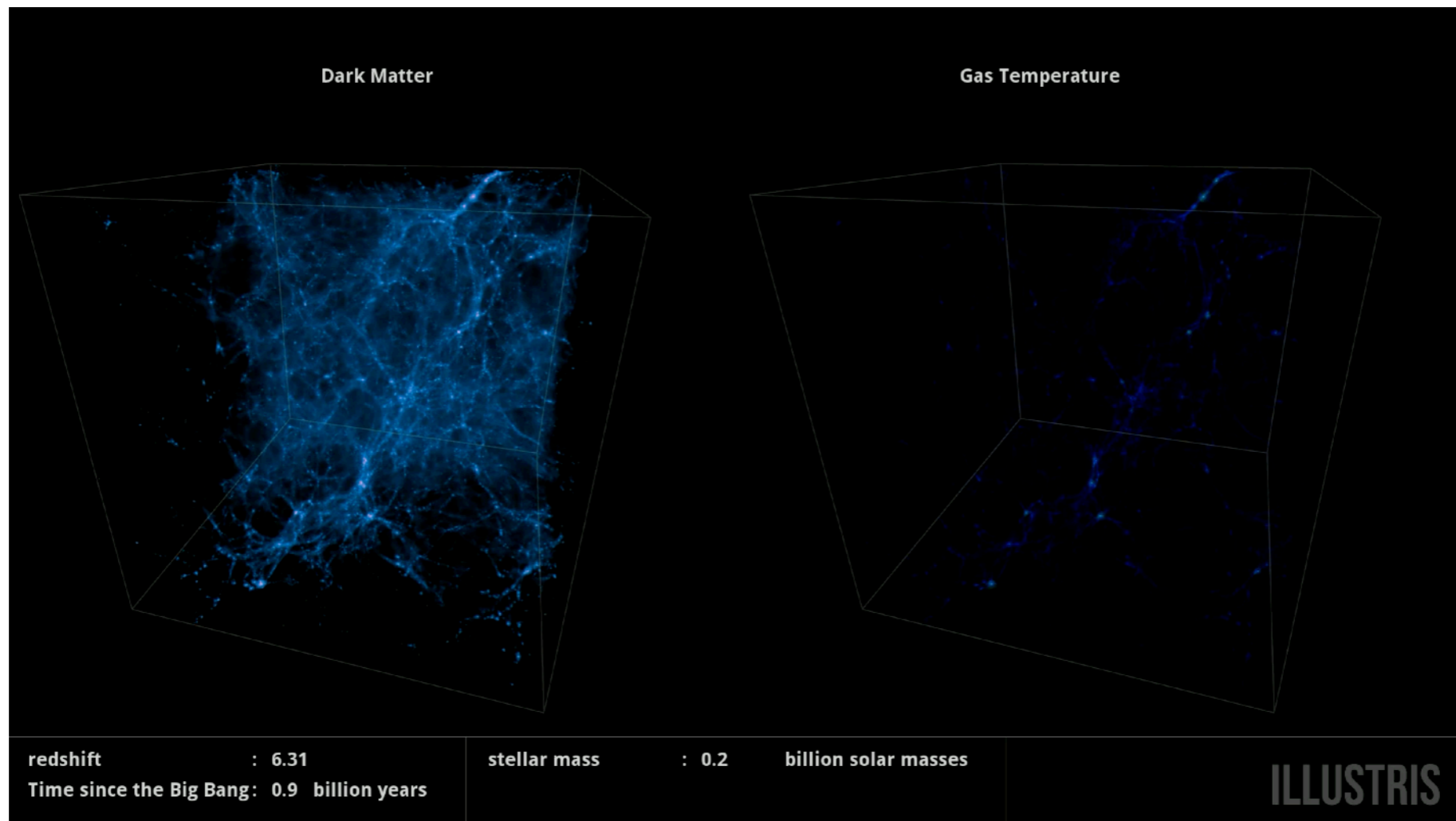
Classical Mechanics I (Spring 2026): Quiz #18

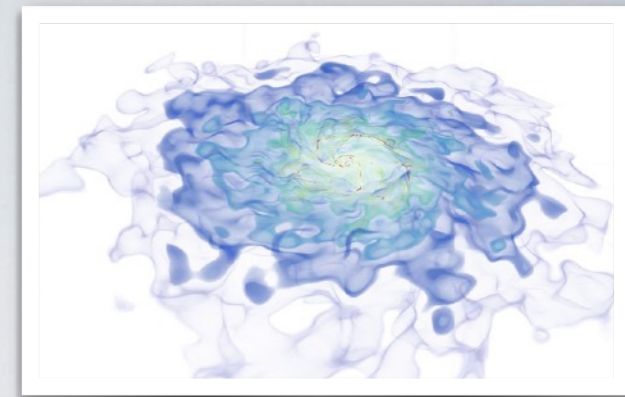
— [open book and open note, **but** no cellphone or laptop, drop it off as you leave the class] —

Please write down your name and student ID in the top right corner. (0.0 pt: no paper found with your name / 0.5 pt: paper found with your name and some answers / 1.0 pt: good answers)

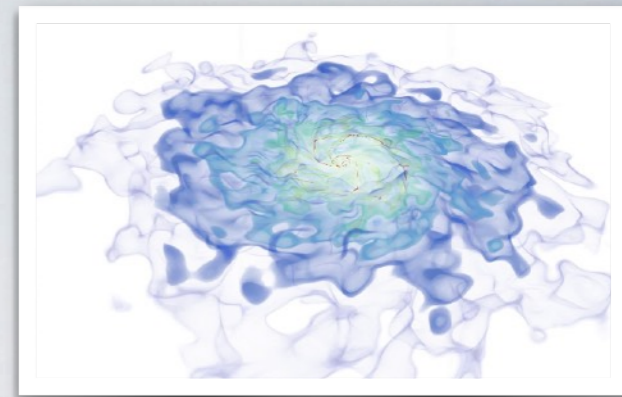
1. Thornton & Marion, Problem 7-37.

2. Find a set of Lagrange equations of a simple pendulum using a constraint $f = \sqrt{x^2 + y^2} - l = 0$. What is the physical meaning of the Lagrange multiplier? What if we write $f = x^2 + y^2 - l^2 = 0$?





**No In-Person Class on 5/19-28
(3 Recorded Lectures on eTL)**



No TA Sessions In Week of 5/25