



UH/AMS Reading Seminar Fall 2014

Topic: Physics

Speaker: Zachary Garvey
Department of Mathematics, University of Houston

Wednesday, September 24, 2014

**1-2 pm
PGH 646**

This week: *Hamiltonian Mechanics*

Our goal this semester is to explore certain topics in physics using a mathematical point of view. This week we will finish our discussion on Lagrangian mechanics, discuss the basic principles of Hamilton's approach, and its connection to Lagrangian Mechanics.

More info at <http://www.math.uh.edu/~cortiz/seminar/>

$$\dot{q}_i = \frac{\partial H}{\partial p_i}; \quad \dot{p}_i = -\frac{\partial H}{\partial q_i}$$