



UH/AMS Reading Seminar Fall 2014

Topic: Physics

Speaker: Richard Bryant
Department of Mathematics, University of Houston

Wednesday, September 17, 2014
1-2 pm
PGH 646

This week: *Lagrangian Mechanics*

Our goal this semester is to explore certain topics in physics using a mathematical point of view. This week we will see how the kinetic and potential energy of a mechanical system determine the Newtonian flow, discuss Lagrange's equations, and examine the principle of least action.

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

$$A(y) = \int_{t_0}^{t_1} L(y(t), \dot{y}(t)) dt$$