A) Fri, Nov 11 B) Mon, Nov 14 C) Either is fine

> Exam 2 · torque & equilibrium (force) · angular kinematics · mamentum

Potential Crergy PEe = = k (DL) 2 .AL= L-Lo amount spring has been stretched or squished PEg = mg he measure height from any reference point WE want. Only SPE are 1 physically significant. DPE= O h same PE= = = k (ay) PEg = mg by = k(3y) - mg sy = □ 2 k sy = mg Sy = 2mg k = spr.ng stretches Dy ~ m

more rucss,
more statch

n \frac{1}{k}

more staffiess,

less stretch

Fritionless

Ei = KE + PE

$$= 0 + mgh = mgh$$

$$E_f = KE' + PE$$

$$\frac{1}{2}mv^2 + O = \frac{1}{2}mv^2$$

$$v^2 = 2gh \Rightarrow v = \sqrt{agh}$$