EN PHYS 131 - EZ01

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- See lab schedule on Dept. of Physics website
    - Undergraduate Laboratories -> Schedules
    - Lab dates: Feb. 5, Feb. 26, March 11. **Final lab period date yet to be set.**
- Labs due following Monday - dropbox on L2 (same hallway as before)
- A lab template is posted to my website
- Lab supervisor is Wladek Rudzinski (wjr@ualberta.ca; CCIS L1-183)

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Lab 6

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Procedure:

1. Take video of one partner dropping a ball, while holding a metre stick
2. Download LoggerPro - send video to laptop and load into LoggerPro
3. Record information from video (see lab manual)
4. Fit one of the curves (see equations on right). Find g from the fit values and the error. Error propagation equations are in the yellow pages.
5. Save both plots. One should clearly show the values from your fit.

$$y = y_0 + v_0 t - \frac{1}{2} g t^2$$

$$v = v_0 - gt$$

$$g = 9.81 \mathrm{m/s}^2$$

In report:

- 2 plots - position & velocity
- Value for g and its error
- Briefly explain the other variables in your fit (ex. what value do you expect for v_0?)