Measury Mings

 $\Delta x = y_1 + \frac{1}{2}a + \frac{1}{2}a$ y= mx+b messel. Ts it linear?

3 The slope?

The slope?

The slope?

The slope?

The slope?

Complibations:

A) Evers quatity that
we neare has an
uncertaintes...

1) estimate ... Multiple trials.

+,02 2 Instrumental 2.98 Docertainty Voltage.
2,06 V + ,005 V B) Errors in the Fit . (Uncertuinties) 4=mx+b m± Sm III

THIS IN EXLEL! " trend Ine" Slope = (10.0 ± 0.2, 1069 $=(9.4 \pm .2)$ kg b = 0.2 ± 0.3 Constat with 200!

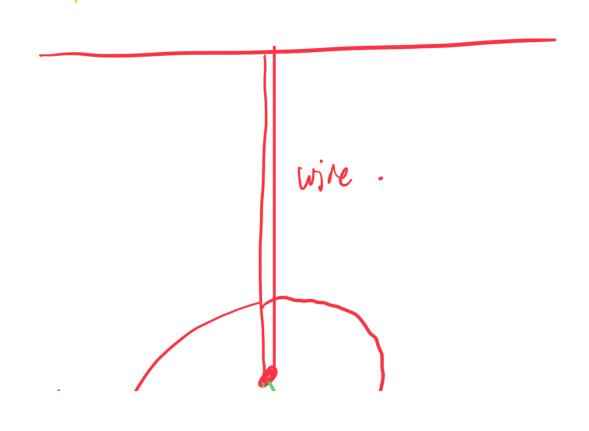
"fairly good agreent"

orly's Law Neutr · . M, IFq (1)

(F) = |2 |Q1||Q2| FEL = (Relation) 1 R2

b=b, $m=\frac{k_e|q|^2}{bHb}$

Moasuming Force 13 insavely hash
Torsion Balance / Pendulum.



Connection between F VS. O (alibration

Raw Data > Process Titter. signaxi, signar X, y, y, ,