- 1) Derive the moment of inertia of the ring
- I= 1 m m 2

I ringual $\frac{1}{2}m(\kappa_1^2+\kappa_2^2)$

I dish Diameter = [MR2

We are going to measure the moment of bruther for a variety of objects and the measure them against on math derived Values.

Velocity us. Time, then we will find acceleration.

Softwere 15 going to plut

Derivations

Idish = 1 mr2

Iring = $\frac{1}{2} (m) (R_1^2 + R_2^2)$

 $d\alpha = h \cdot dx = 2 \cdot \int R^2 - \chi^2 dx$ da = Mr. Z. Jk²-x² dx

r is charging because the string is outlapping on itself.

Use the biggest pulley.

the creartainty is due to average minur one of the values

Mg-T=Ma Mg-Mc=T

(mg-ma)=I. $\frac{de}{2}$ r2(mg-mc) = I

Error Prop

Thur Geo I's

- For I of whole System

- Whole System allor prop

8-10 emos

dist, it has a grown and Nogles