

3/15/2019

test runMeasure ω :

- spin the ball (no nutation) *as much as possible*
- shine flashlight onto the ball 400 rpm

Measure precession Ω :

- chronometer timing several times

$$\frac{40.15}{41.83} \left. \vphantom{\frac{40.15}{41.83}} \right\} \text{Dasen}$$

40.91 Raff. *a bit of nutation*Try:

- fixing a flashlight freq.
- match the ball ω by adjusting the spin

2x400

Set on 400 rpm, fixed the dot,
 $\phi = 80.32 \rightarrow 1 \text{ flash per } 2 \text{ rot.}$

1:20:32

80.32

2nd Run:

<i>fixed</i>	<u>RPm</u>	<u>t (s)</u>		
	350	35.83	35.90	36.00
	300	30.27	30.26	30.81

250

25.56

25.65

25.40

Tighten the rod-ball connection from time to time