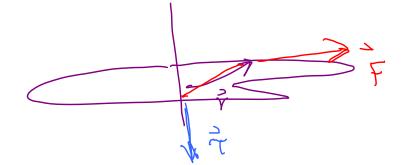
Phys 2110-5 11/12/12

Note Title 11/12/2012

Chap 11

Vectors

7 = 22



 $b^{\times} = w_{\lambda}^{\times}$ Angular moment

Ly m = J.5 = mvb

direction 15

into page X into

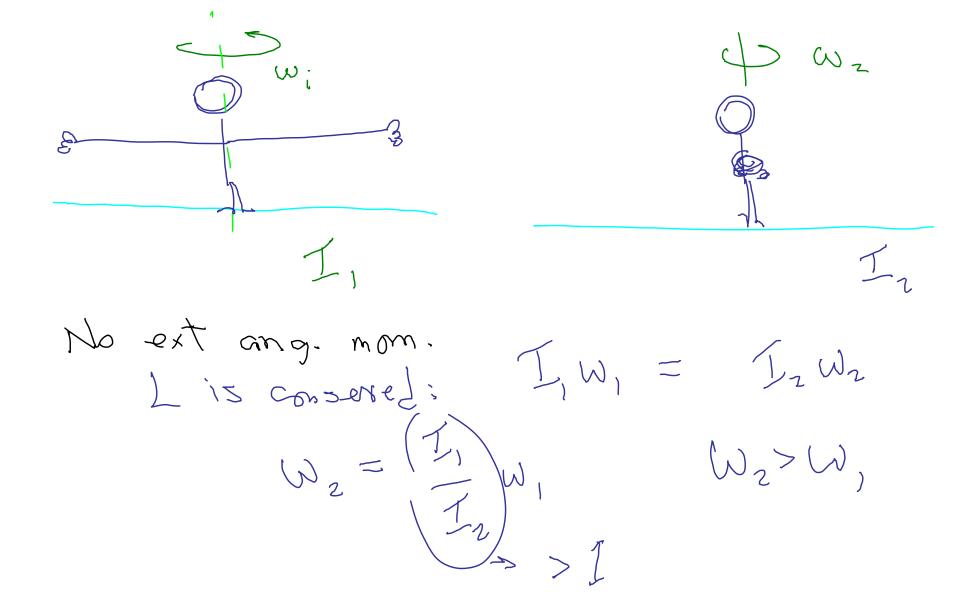
I .-huh -- what is it god for?

If there is no net external torques then total ang. mom. starps same.

Rotational collisions.

Prop top

In the dishs dish $T_2 w_i = (I_i + I_2) w_i$



11.23 A 640-9 hoop 90 cm in liameter roting at 170 pm. What it's any. mom.

L = IW $W \rightarrow rad$ $I = MR^2 JiH L = 2.3J.3$

11.38 Turntable of radius 25 cm and rothinertia O.0154 Lym. spinning freely 22.0 rpm. 19.59 monse on outer edge. Monse Walks from edge to center. a) New rot'l speed , b) Work done by Monse

$$T_{1}w_{1} = T_{2}w_{2}$$
 $W_{2} = \frac{T_{1}w_{1}}{T_{2}} = 23.7 \text{ ypm}$
 $Compwe Res \qquad K_{1} = \frac{1}{2} I_{1}w_{1}^{2} = 0.04415$
 $K_{2} = \frac{1}{2} I_{2}w_{2}^{2} = 0.04735$
 $K_{3} = \frac{1}{2} I_{2}w_{3}^{2} = 0.04735$

11.25

 ω

 ω_2

L stays same.

11.43 A circular 19 cm in radius, not mertia 0.12 kg m². Suspended, rot'ing at 5.6 rpm. 140 g birds lands on rim, comes in tangent to rim at 1.1 m/s in direction opp. Fæder's rotation. What istation rate Aferwards?

D. 586 3 I feed $V = M_{bm2} V (R)$ $= 4.106 \times 10^{-2} \frac{1}{5} \frac{1}{5}$ More examples of rotins I cons. of ang. mom malude axes chang 218.

Chap 12

That that don't more.

Static Equibibin.

That that don't more.

Static Equibibin.

That that don't more.

Static Equibibin.

Chap 13 Oscillations