Quiz 8 for PHYS 4210/5210, 23th November 2026

First Last

Student Name:

1. What defines the angular momentum **L** in terms of angular velocity **ω**.

2. What defines the angular momentum **L** and angular velocity **ω** when defined in the pricipal axes**.**

3. Define the moment of inertia **I'** when evaluated in the principal axes.

4. What defines the (d**L**/dt) the rate of change of angular momentum in the body frame.

5. What defines the Lagrangian for a rigid body spinning about a fixed pivot.