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## PHYS 1210 Discussion 10. Physical Pendulum

A physical pendulum is composed of a bob with mass  $M$ , in the shape of a square with sides of length  $a$ . The center of mass of the bob is a distance  $L$  from the center of the pendulum's arc (the pendulum's axis). In terms of  $a$ , what length  $L$  gives the highest oscillation frequency for the pendulum?

